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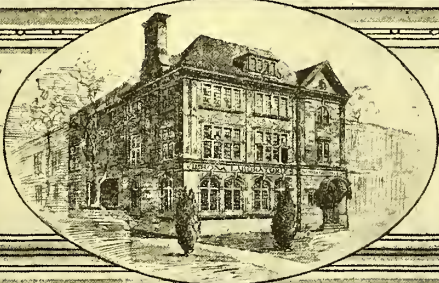
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| (1) Ergot, Gentian, Henbane, Henna, Insect Flowers, Licorice, Lycopodium, Scammony, Senega, Senna, etc. | (2) Cinnamon Cloves, Nutmegs, Pepper etc. | (3) Aloes, Arabic Tragacanth etc. | (4) Aniseed, Cardamoms, Coriander, Cumin, Fenugreek, Wormseed, etc. | (5) Phenacetin, Saccharine, Santonin, Bicarbonate, Bichromate, Soda Ash, etc. | (7) Anise, Birch Tar, Coriander, Rose etc. |
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IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same
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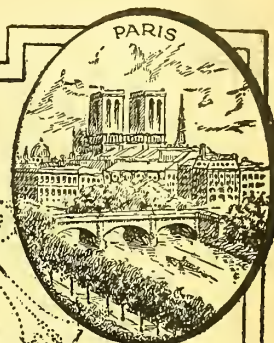
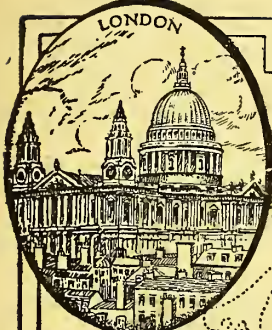
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*R. W. GREEFF & Co. offer at lowest prices
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(WHOLESALE QUANTITIES ONLY)

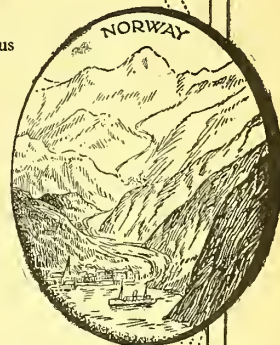
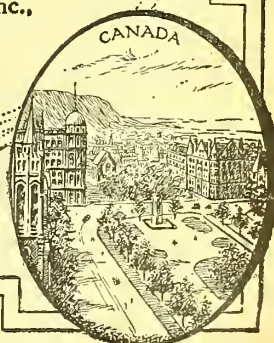
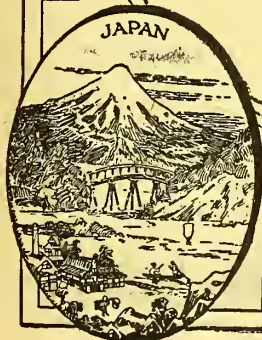
Acetanilid	Guaiacol Carbonate	Potash Sulpho-Guaiacolate
Acetone	Hexamine	Quindide and Salts
Acetyl Salicylic Acid	Homatropine	Quinine and Salts
Amidol	Hydroquinone	Quinine Ethyl Carbonate
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Barbitone	Kelene	Resorcin
Benzoic Acid	Lemon Oil	Saccharin
Benzamine Hydrochlor	Lithia Carbonate	Salicylic Acid
Benzamine Lactate	Lecithin	Salicylate of Soda
Benzo Naphthol	Menthol	Salol
Beta Naphthol	Mercurials	Soda Benzoate
Bromides	Methylene Blue Medicinal	Soda Hyposulphite
Calcium Lactate	Methyl Salicylate	Soda Sulphite Anhydrous
Chloral Hydrate	Metol	Sugar of Milk
Cinchonine and Salts	Paraldehyde	Tannic Acid Leviss
Cinchonidine and Salts	Peppermint Oil	Tannin Albuminate
Citric Acid	Pepsine	Tartaric Acid
Cocain	Peptone	Terpineol
Creosote Carbonate	Phenacetin	Terpine Hydrate
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IMPORTANT NOTICE TO THE TRADE.

Great Public Handwriting Character Competition

£1,350 IN PRIZES

In order to advertise "**LONDOVUS**"—the Rat and Mouse Exterminator—the Proprietors are inviting the general public to purchase same in connection with an attractive *Hand-writing Character Competition* which is to be advertised very largely in the press in a few weeks from now. In order that *Dealers*, as well as the public, should participate, we offer the following:

A Prize of £25

to each of the Three Dealers from whom the winners of the Three Highest Prizes purchased their "LONDOVUS."

The simplicity of the competition, and the value of the prizes offered, will certainly induce many thousands of members of the general public to participate in the competition; and a large and immediate demand for "LONDOVUS" will be the result.

In order to meet this demand, dealers are urged to apply **AT ONCE** for adequate supplies, which will be made with the utmost dispatch.

No Licence is necessary to sell "Londovus."
It is **HARMLESS** to Humans and Domestic Animals.

RETAIL SELLING PRICE:

1/- size	...	...	...	12/- per dozen.
2/6 "	...	...	...	30/- "
5/- "	...	...	...	£3 "

Above figures subject to 33½ % discount. Carriage paid. Stocked by all Wholesale Chemists, Ironmongers, etc.

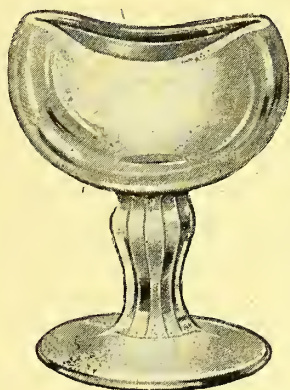
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THE LONDON HYGIENIC CHEMICAL CO., LTD.,
Wansey Street Works, LONDON, S.E. 17.

Stock "LONDOVUS" at once to meet great demand.

Maw's Page

Eye Baths



THE Pharmacist is assured of sales for a certain number of Eye Baths during the summer season. The dust and insects which naturally accompany hot, dry weather account for the demand, which is essentially an emergency demand and must be met forthwith. This means keeping a stock of Eye Baths ready for sale.

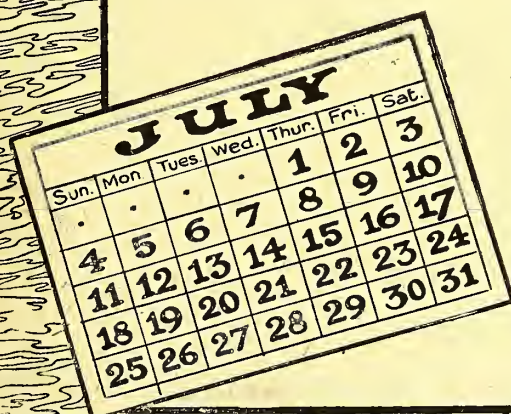
We can supply glass Eye Baths with stems, in three assorted colours: white, green and blue.

- No. 12. As illustrated, price 9/6 per dozen.
No. 10. Fluted, price 6/6 per dozen.



No. 455

3-7-20.



S. MAW, SON
& SONS, LTD
7-12, ALDERSGATE
ST., LONDON, E.C.1
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**STERLING
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**WOOLS
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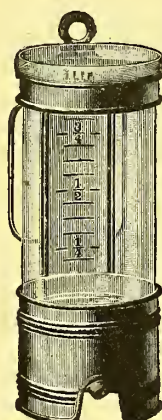


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**GLASS
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**BRONZE
 JAPANNED
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Complete with 3-piece Vulcanite Douche Set and 6 feet
 Best Tubing. Each in Box.

2
 7/6

3
 8/6

4 Pints.
 9/6 Each.

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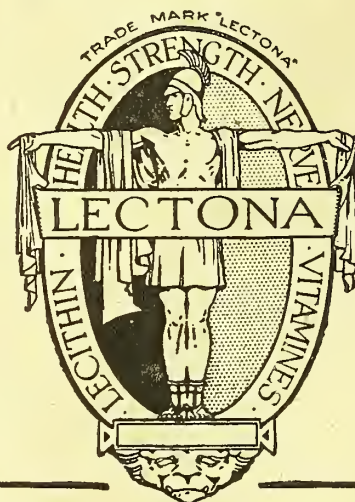
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ALL CHEMISTS can now secure

“LECTONA”

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LECTONA is a scientific preparation containing Lecithins (the essential constituents of the nerves and brain) and Vitamines.

The Lecithins are present in a form in which they are completely assimilable.

LECTONA represents the LATEST RESEARCHES upon the Lecithins and Vitamines and marks a DISTINCT ADVANCE UPON ALL TONIC FOODS.

The 5/6 tin contains sufficient for 9 days; the 3/- tin for 4 days' treatment. EACH DOSE CONTAINS 3 GRAINS OF LECITHIN.

LECTONA'S action is rapid and benefit is apparent almost immediately.



On P.A.T.A. List at 5/6 per tin and 3/- per tin.
Wholesale prices 49/6 and 27/- per dozen respectively.

It shows the right margin of profit to distributors.
Carriage paid only on unbroken cases of 1 dozen and upwards.

DUMMIES AND LITERATURE WITH SUPPLIES.

Manufactured only by fully qualified chemists at LECTONA WORKS, WATFORD (HERTS).

All communications to London Offices :

LECITHIN, LIMITED,

263 High Holborn, W.C.1.

AYRTON'S WEEKLY

PAGE
15



After a wasting illness

there is nothing so beneficial as a good restorative Tonic Wine, it will bring back the colour to the cheeks, and health and strength to the body.



You can safely recommend—

Liebig's Beef and Malt Wine

It contains the stimulating properties of rich old port, the nutritive value of prime beef, and the digestive properties of best malt extract. It is a perfect food tonic for the convalescent.

Reputed pints	...	...	...	27/6	per dozen
„ quarts	...	...	...	47/-	„

Liebig's Beef and Malt Wine with Quinine

Similar to the above but with the addition of Quinine making it an exceedingly valuable bitter tonic.

Reputed pints	...	...	...	31/6	per dozen
„ quarts	...	...	...	51/-	„

José Serrano Port Wine

A full-bodied old wine, well matured, and of excellent bouquet. A wine of quality for the sick room or the table.

In bottles, 6 to the gallon	...	78/-	per dozen
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José Serrano Matured Old Sherry

An excellent table wine.

In bottles, 6 to the gallon	...	72/-	per dozen
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Ayrton, Saunders & Co. Ltd.
Manufacturing Chemists
34, Hanover Street, LIVERPOOL



A
REVISED PRICE LIST
of
PROPRIETARIES

will be ready for
distribution on

JULY 1

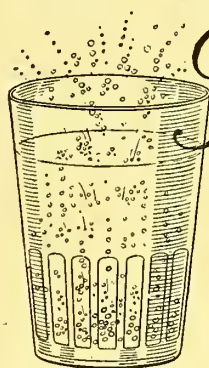
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our books will re-
ceive a copy in due
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to send a copy
to others, post
free, by request.

Showrooms:

258 EUSTON ROAD, LONDON, N.W.1.

Hours of Business:
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Saturdays to 1 p.m.

The Effervescent that is 100% Efficient



BECAUSE it is SUGARLESS and therefore compounded entirely of Medicinally Active Ingredients, Pharmacists feel confidence in stocking and recommending

—“E.545”— FRUIT GRANULES

—a saline which appeals especially to the discriminating palate and is a safe investment for Chemists with a good-class clientele. No other effervescent is quite so economical as “E.545” and though compounded without sugar, skilful pharmacy has ensured palatability.

THE “GET-UP” OF “E.545”

is a refined and distinctive combination of greens and greys which harmonise with almost any surroundings. “E.545,” in short, is a saline which worthily upholds the Kerfoot tradition in effervescent excellence. The Trade price for 6-oz. cartoned Chelts. is 19/- per dozen net. If you do not already stock “E.545”
ORDER YOUR TRIAL 3 DOZEN—NOW
it's just the time!



THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

"CINEMA" BEAUTY AIDS

as supplied to Miss Mary Pickford and leading Stars, are in great demand everywhere. During the past month we have received **THOUSANDS OF ORDERS BY POST** owing to the inability of the public to obtain them from Chemists. Live Chemists who know what Quick Sales at Big Profits mean, are wanted in the following districts to meet the demand of the public who are sending daily in response to our advertisements.

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Ashford	Bridgend	Exeter	*London	Peterborough	Torquay
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OUR GREAT MONEY BACK OFFER

FOR SEVEN DAYS ONLY

Cinema Crushed Rose Face Powder and Cinema Dentifrice are now put up in 2/- and 1/6 sizes respectively—in golden photo boxes—with golden box outers to each dozen—and—we say without hesitation, are the most attractive and striking specialities on the market. If you will send us a cheque for **THREE GUINEAS**

We will send at once 2 doz. **2/-** boxes of Face Powder.
 " " " 2 doz. **1/6** boxes of Dentifrice.
 With a Free Bonus Gift of 2 doz. **6d.** Face Powder, and
 " " " 2 doz. **6d.** Dentifrice, also
 A supply of Real Cinema Star Photo Showcards, and 500 copies of the Great Picture Paper, "The Picture Show," all Carriage Paid.

If you are not perfectly satisfied after receipt of the goods and advertising matter, send them back (within 7 days) AT OUR COST and we will refund your money in full.

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SALES NOW BEING MADE OF **THE EMPIRE**
HENNA SHAMPOOS



They are well packed in smart envelopes and boxes, delightfully perfumed, and repeat sales are sure. Made from a Potash Soap base, so the hair is left soft and wavy.

Retail at **3d.** each.

Loose in display
outers,

17/- gross.

In boxes of 7,

12/9 per doz.

*3 gross printed with
customer's name.*

A postcard will bring a
Free Sample.

Showcard in an artistic colour scheme of rich auburn, black and brown, with all orders.

THE EMPIRE PERFUMERY CO.

(Cuxson, Gerrard & Co. Ltd., Proprietors)

OLDBURY, ENG.



EXPORT and COLONIAL Inquiries Invited.



NO INCREASE!!!

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Supplied in following Odours : Lily, Parma Violet, Carnation, Trefle, Mimosa and Sweet Pea.

Write for our Price List for these and all other Lines in Stock.

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(Proprietors, The London Essence Co., Ltd.)

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Unquestionably business is quiet at present, yet we are receiving steady repeat orders for DE LUZY lines, and are daily opening new accounts because chemists recognise their singular elegance and value.

	each	doz.	each	doz.	each	doz.
POUDRE	10d.	6/8	1/9	14/-	3/3	26/-
CREME	1/3	10/-	2/6	20/-	3/9	30/-
PARFUM (Fleurs Naturelles) ...	—	—	5/-	40/-	14/6	116/-
PARFUM, Origan, Chypre, Ambre	—	—	5/6	44/-	16/6	132/-

Showcards and Samples supplied. Carriage Paid on any Opening Order.

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RED THYME

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LET US SEND YOU BUSINESS

There is a growing demand for Dulc-o-do, the toilet water which corrects excessive perspiration and obviates the use of dress shields. A doctor writes: "I find it a splendid preparation."

Send 20/- for a trial dozen 2/6 bottles and showcards, your name will then be placed on our depot file and all future inquiries from your district will be directed to you.



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Corrects Under-Arm Perspiration

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BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

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The Oils that have a Long
Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

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46/-gross

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"Enolin" is also supplied in Powder Form - 6d. & 1s. Tins

Selling Agents for Provinces, Ireland and Export—

Messrs. PATTINSON & MACKIE, LTD.

Albion House, 59 New Oxford Street,
London, W.C. 1.

Sole Manufacturers and Proprietors—

A. & E. CARRERAS, LTD., Perfumers,

207 King Street, Hammersmith,
London, W. 6.

*If you have any difficulty
in obtaining the supplies
you need of*

CALVERT'S

Carbolic Tooth Powder

OR

Calvert's Carbolic Soaps
DISINFECTANTS and
other SPECIALITIES,

WRITE TO

F. C. CALVERT & CO.
MANCHESTER - - ENGLAND.

The Evan Williams
Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Ogie Street, W.1.
ORIGINAL SHAMPOO.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous

LEROZA Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/9 per tin box (about 11 oz.) costs 15/6 per dozen carriage paid. Cash with order.

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD
The LEROZA THEATRICAL STORES, 71, 73 & 75 Cambridge St., Glasgow.



LOVELY (A BRITISH SCIENTIFIC INVENTION)
EYELASHES

Colourless, harmless eyelash food. Beneficial to the eyes.
25 % on small orders, 33 1/3 % on Gross Lots.

CURLASH CREAM

For a small show in your window:

OUR WINDOW-SHOW OFFER	3 Doz. @ 1/-	...	...	£1 16 0
	9 Free ...	...	...	9 0
	Returns ...	...	...	£2 5 0
	Outlay ...	...	...	£1 7 0

With Dummies and Show-sards. Carriage paid. **NET PROFIT 66 3/4 % 18 0**

THE BALDWIN MFG. CO., Ltd., 37 Berners St., London, W. 1.

South Africa:
ASHKANAZY, LTD.
Johannesburg.

P.A.T.A.

1/-, 1/9 & 3/6

EXTENSIVELY
ADVERTISED

Think it over!

THESE ARE JUST THE LINES YOU WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.



"LEONA" DENTAL CREAM

(Mint or Thymol)

Small Size	...	Cost 4/6 per dozen	Sell @ 7½d.
Large Size	...	" 8/- " "	" @ 1/3

Recommended by the Institute of Hygiene.

"LEONA" CREME DE BEAUTE

Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

"LEONA" BRILLIANTINE (SOLIDIFIED)

Cost 8/6 per dozen Sell @ 1/-

Packed in beautifully embossed tins and cartons.

POUDRE "LEONA"

Cost 8/- per dozen Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

Every Line is a work of art.

Ask your wholesaler to show them to you, and

YOU WON'T REGRET IT

Sole Manufacturers and Proprietors—

THE JACKSON CO., 172 St. JOHN STREET, LONDON. E.C. 1.

A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C. 4.

Please note that the prices of
Poudre de Riz de Java (Bourjois)
 are as under :

2/- size. No. 45	1/3 size. No. 495
1 doz. - 16/- per doz.	1 doz. - 11/- per doz.
6 „ - 15/9 „	6 „ - 10/9 „
12 „ - 15/6 „	12 „ - 10/6 „

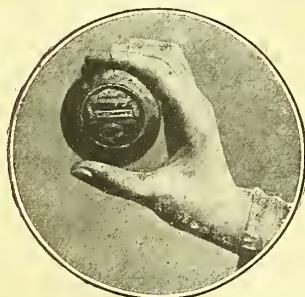
The P.A.T.A. prices for Java Powder have been increased to
 May 1, 1920. 2/- and 1/3 per box.

MOUSLEY'S "BEAVERPUF"

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

B. quality
 Brown
 Fur,
 3/11
 each,
 Retail.

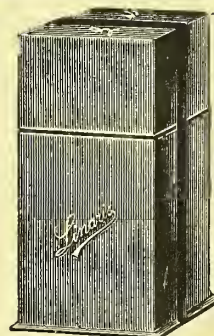


G. quality
 Grey Fur,
 4/6
 each,
 Retail.

Additional Powder Bags, 6d. each, Retail.
Revolution in Powder Puff Manufacture.
Thousands already sold.
Now stocked by leading Wholesale Houses.
 Usual Trade Discounts.

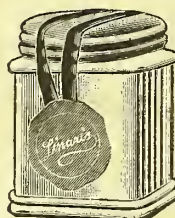
Patentee and Sole Manufacturer:

F. A. MOUSLEY,
 Priest Bridge, Mortlake, London, S.W.14.

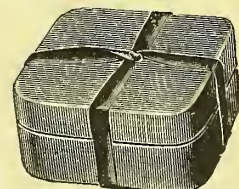


Linaris

BATH POWDERS
 FACE POWDERS (*all tints*)
 SKIN FOOD
 BEAUTY CREAM
 TONIC CREAM
 VANISHING CREAM
 BATH SALTS, etc. etc.



Linaris
 Dept. 1
 W.2.



31 Westbourne Grove

THE BEST SOAP PROPOSITION

Some Suggestions to the Trade.

The SAPON SOAP Display Box



Overstocking your shop is a bad policy. To be "cut of stock" is equally bad. You lose prestige, and profits drop, because dissatisfied customers are quick to go elsewhere.

Therefore we urge all customers who are building up a sale for

SAPON SOAP

to send small orders often.

Although our Works are going full pressure, demand is so great that we are unable to guarantee prompt delivery on receipt of order. Our many friends will greatly assist us, therefore, by anticipating requirements by a month when possible.

No payment till after goods arrive.

Remember, we are in no way connected, directly or indirectly, with any combine of Soapmakers.

"Sapon" Soaps show you a better profit than other makes.

Send for price list and full particulars.

SAPON SOAPS, LTD., London Bridge, E.C.4.

STRODONIA Vanishing Cream.

NOW SUPPLIED IN
ALUMINIUM
SCREW-CAPPED JARS.

10½d. size—7/6 doz. 1/3 size—10/6 doz.

FROM LONDON WHOLESALEERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10/0 subject to ½ doz. 1/3 size Bonus for window display, net; £1/10/0 subject to ¼ doz. 1/3 size Bonus for window display, net. Carriage paid on £1/10 0 upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

PROTECTS from all weathers, preserves the COMPLEXION

MOKOL SOFTENS ROUGH HANDS **MOKOL**
FACE CREAM
FOR THE SKIN

Reg. INDISPENSABLE IN THE HOME Reg.

For LIBERAL Wholesale Terms write to—

THE MOKOL CO., 98 Hatton Garden, London, E.C.

The Dye with a Reputation for reliability.

ROYAL COURT HAIR DYE

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only dye giving a natural gloss to the hair.

From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

LOTOZONE

SHAMPOO DE LUXE

A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

Full particulars on request.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The Shampoo Salesman, free on application, gives full details of prices and profit.

Pears' new advertising campaign is now in full swing.

THE new campaign to advertise this famous soap has already made a considerable impression on the public mind. People are realising why they should buy Pears', and their appreciation of our arguments is shown in our increased sales. There is every indication that this increase will become very great in the near future.

Are you prepared to take your share of this new trade?



Pears'

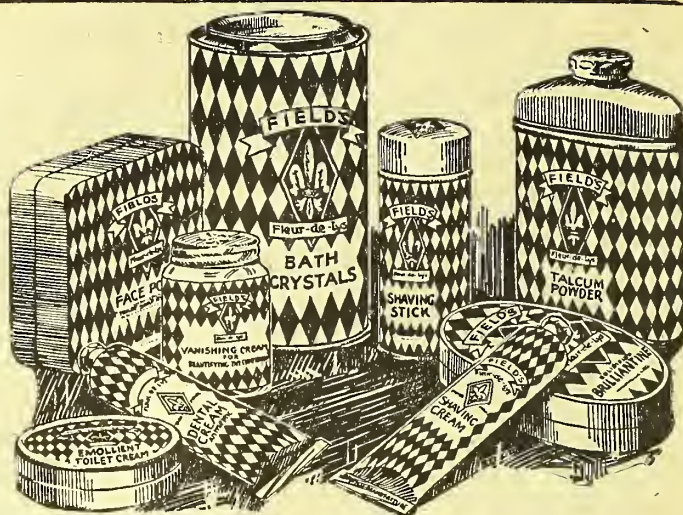
Transparent
SOAP

Matchless for
the complexion

IN their presentation to the public, Field's Fleur-de-Lys Toilet Preparations strike an entirely new note. They are daintily packed in containers covered with a very arresting yet dignified design of old gold and black diamonds, that cannot fail to attract the attention of your customers, and convey a very pleasing impression.

These lines are all a lucrative source of profit to you, and their quality, and the very attractive manner of their presentation to the public, assure that the advantageous terms offered you are regular and continual.

Their quality is backed by our high reputation—nearly 300 years old.



FLEUR-DE-LYS

Toilet Preparations^{REGD.}

J. C. & J. Field, Ltd., Upper Marsh, Lambeth, S.E. 1.

Estd. in 1642, in the reign of Charles I.

For LARGE BUYERS

For SHIPPERS

Good Toilet Goods

SHAVING STICKS,
BRILLIANTINES,
DRY SHAMPOO (Liquid and Powder), BAY RUMS, TOILET
PARAFFINS, LIME CREAMS, POMADE HONGROISE, TOOTH
POWDERS, DENTAL CREAMS, VANISHING CREAMS,
SHAMPOO POWDERS, and all TOILET GOODS.

SAMPLES AVAILABLE

C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.3.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu,
TONKA BEANS, Angosturas.

Phone—
CITY 2468.

Telegrams—
"EGDARF, FEN, LONDON."

PRICE'S
REGINA
Shaving
Stick



ORDER
"REGINA"
AND
HELP THE EXCHANGE

Samples and Quotations from
PRICE'S
Battersea, London,
S.W. 11.

THREE GOOD SELLERS THAT PAY WELL

FROZOCLONE

(The original solid Eau de Cologne).
(Regd.)



THE WORLD'S GREAT
PERFUME AND
REFRESHER IN
SOLID FORM

Retails (P.A.T.A.)
Minimum - 3/6
giving at least 10d. Profit
on each sale.
32/- - per doz.

For EXPORT quantities of
not less than four gross a
substantial drawback al-
lowance will be made.

FROZOCLONE is a convenient form of the finest Eau de
Cologne, refreshing when rubbed on the forehead, equally
pleasant as a smelling bottle, invaluable in a heated atmosphere
and when motoring.

CARNATE (Regd.)

A NAIL POLISH PASTE with new and distinctive
features. Antiseptic—Softens the cuticle—Brilliant
and lasting polish.

Retails (P.A.T.A.) minimum 1/9; 15/- per doz.

ANALAX

(Reg. Pat. No. 310716)



The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum 2/3
21/- per doz, stamped.

R. DEMUTH'S LABORATORIES, 68 Salusbury Road, and
Montrose Avenue, LONDON, N.W.8

Telegraphic Address: "Boulbene London."

Telephone: 525 Willenden.



WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,
FULWOOD HOUSE, HIGH HOLBORN, W.C.1

	Per doz.		Per doz.
1/6 Wavcurl (in packets) ...	9/-	1/6 Duvetine (Superfluous Hair Remover) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-	1/6 Wavcurl Hair Tonic (9 in Powdered Form) ...	9/-
1/6 Complexion Cream ...	10/-	1/6 Eyelashine ...	9/-
2d. Shampoo Powder ...	15/-	Showcards for Window Dummies for Show	no charge
	gross.		

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

Camilatone Means Money.

YOUR lady customers want something done to their hair which will restore the colour of old—a dye will not do it, nor will a bleach. It is only by using Camilatone Beauty Shampoo that this can be accomplished, and the glossy, lustrous shades of youth restored to dull or uninteresting hair.

Camilatone sells itself—so stock it.

Camilatone

Puts Sunshine in the Hair.

Write to-day for a copy of booklet, "Hair Beauty Hints," which will be sent post free together with trade terms.

Camilatone is obtainable from R. HOVENDEN & SON, LTD., Berners St., W. 1, and City Road, E.C. 1, and HOLLYWELL & CO., 44 Lexington St., Golden Square, W. 1, or direct from

CAMOMILE TONIC CO.,
16 Lichfield Road, Cricklewood, N.W.2

IF YOUR BEST FRIEND WHOSE WORD YOU VALUED

said get "Quin Quenna," it's the easiest thing selling now, nets you a profit worth while, you'd listen to him and nine times out of ten you would (because you implicitly trusted him on account of his proven interest in your welfare) Send for a box or two immediately—such is true friendship—Let us act in the honoured capacity for once

because we know from thousands of cases you will sell the 6 doz. & 1 doz. bonus so easily that your repeats will be a mere matter of course for profitable

Quin Quenna

BETTER THAN A SHAMPOO

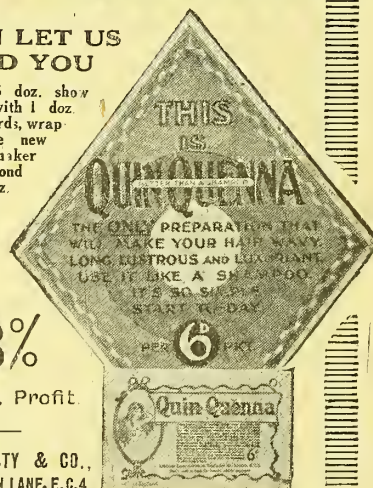
THEN LET US SEND YOU

one or two 6 doz. show outers, each with 1 doz. bonus showcards, wrappers and the new wonder sales maker "The Diamond Bill," 4/- doz. advertised at 6d. You will be pleased you took our advice.

43%

P.A.T.A. Profit.

THOS. CHRISTY & CO.,
4/12 OLD SWAN LANE, E.C.4.



Telephone: Trafford Park 787.

Telegrams: "Stevenut Manchester."

Contractors to H.M. Government.

G. STEVEN & CO.

Wholesale Chemists
& Drug Grinders,

Cornbrook Street and Chorlton Road,
MANCHESTER.



All four repeaters!

Sell themselves!

Contents guaranteed genuine.

Packed in white glass toilet Bottles, with sprinklers and
lithographed labels.

Price 10/6 per dozen net.

Samples of labels on request.

Your Customers will soon be asking for

SILKODONO

for the HAIR & SCALP

Extensive Press Advertising



SILKODONO, the latest discovery for the Hair and Scalp, is being launched with the aid of a powerful and rousing Advertising Campaign and everything is being done to ensure that the Retailer will make large and profitable Sales. Amongst other papers we shall advertise in the following Journals:—

Daily Mail, Daily Mirror, Daily Chronicle, Daily News, Sunday Pictorial, News of the World, Reynolds, Weekly Dispatch, Birmingham Post, Manchester Evening News, Liverpool Post, Glasgow Evening Times, Sunday Chronicle, John Bull, London Mail, Ideas, Tit Bits, and the leading Ladies' and Society Papers.

These publications will create a National demand for SILKODONO and we are advising you in advance of our Advertising so that you may be ready with Stocks to satisfy this demand. Order to-day. Those who are first in the field with SILKODONO are going to reap the biggest harvest, not only now but ever afterwards, for once a man or woman tries SILKODONO they will never use anything else.

SILKODONO
for the HAIR & SCALP
The Family Hair Remedy

2/6 and 4/6 per bottle

SILKODONO
for the HAIR and SCALP

SILKODONO
for the HAIR & SCALP

Smart Showcards to Stimulate Silkodono Sales

2/6 & 4/6 per bottle

A DELIGHTFUL DRESSING
PRODUCES, PRESERVES
AND RESTORES THE HAIR

PRICES
2/6 & 4/6
per bottle

These Black and White Illustrations do not do justice to their charming originals, all of which are printed in 14 colours, and are in convenient sizes, viz. 9" x 12". All Stockists of Silkodono will be supplied with these Cards, free of charge. They are designs which we are sure all Chemists will be proud to display in their Shops.

Sole Manufacturers of Silkodono:

Telephone: Holborn 3095.
Telegrams: "Silkporanol, Holb, London."

SILKS TOILET COMPANY,

The Latest Discovery for the Hair.

SILKODONO

for the HAIR & SCALP

➔ **Starting Immediately**

**Special Terms to Chemists
who order before July 31.**

SILKODONO (2/6 Size) ... per dozen	£	s.	d.
BONUS—2 Extra Bottles	1	10	0
		5	0

	1	15	0
Costing you	1	0	0

Net Profit of 75% 15 0

SILKODONO (2/6 Size) 3 dozen lot...	4	10	0
BONUS—9 Extra Bottles	1	2	6

	5	12	6
Costing you	3	0	0

Net Profit over 85% 2 12 6

SILKODONO (4/6 Size) ... per dozen	2	14	0
BONUS—2 Extra Bottles		9	0

	3	3	0
Costing you	1	16	0

Net Profit of 75% 1 7 0

SILKODONO (4/6 Size) 3 dozen lot...	8	2	0
BONUS—9 Extra Bottles	2	0	6

	10	2	6
Costing you	5	8	0

Net Profit of 85% 4 14 6

Dummy Cartons and Striking Showcards for Window and Counter Display
FREE OF CHARGE.

THE RETAIL PRICES of SILKODONO are 2/6 for 8-ounce Bottle and 4/6 for 16-ounce Bottle, and at these prices, considering quality and quantity, it represents extraordinarily good value while allowing you a fair margin of profit.

SILKODONO contains Hair-Nourishing Properties hitherto lacking in extensively advertised Preparations, and it can honestly be described as a positive cure for all Hair Troubles. Before putting it on the market we have made the most thorough and exhaustive tests and the results achieved can only be described as miraculous.



A notable Selling feature of Silkodon is its beautiful Wrapper which is attractively printed in 6 colours, the original Bottle and label being reproduced in their actual colours. It is quite distinctive, and when shown in Window or Counter Display will give a wonderfully striking effect.

RED LION STREET, HOLBORN, LONDON, W.C. 1.

TO MAKE MONEY YOU MUST SELL PROFITABLE LINES.

Here are a Few!

Peach Bloom Face Powder.

3/6 dozen. P.A.T.A. 7½d.

Mad. Var's "Fairskin" Powder.

In decorated tins with Puff, 21/- dozen.
2 boxes free as a bonus with each dozen.

Mad. Var's Hair Dyes.

6/- and 7/6 dozen.

A1 Menthol Snuff.

3/- dozen. P.A.T.A. 4½d.

"Golden Girl" Shampoo.

1½d. each. 10/- gross.

Mad. Var's Henna Shampoo.

24/- gross. 7 in a box, 17/- dozen boxes.

"Whitecross" Tooth Powder.

3/- and 4/6 dozen.

"Whitecross" Talcum Powder.

3/- dozen, in decorated tins.

"Whitecross" Antiseptic Tooth Paste.

4/6 dozen, in collapsible tubes.

* Baby Powder "White X."

6/9 dozen. In dredger tin elaborately decorated.
P.A.T.A. 10½d.

* WRITE FOR PARTICULARS OF
BONUS SCHEME.

"Evelina" Hygienic Feeders.

Each in a box, 1½/- dozen.

Ambrosème Vanishing Cream.

In Opal Pots, Aluminium Cap, 6/- dozen.
In 2-oz. White Plain Pot, each in a carton,
6/6 dozen.

TIN BOXES in variety.

"X" Series.

QUOTATIONS ON APPLICATION.

Chemists' Manufacturing Co., Ltd.
and SHIRLEY BROTHERS,

123/5 Newington Causeway, S.E. 1.

Sell Forhan's as a Preventive Treatment for Pyorrhea.

PREPARED from the formula of R. J. FORHAN, D.D.S. Forhan's for the Gums is unique among dentifrices in having strongly preventive qualities for the treatment of Pyorrhea.

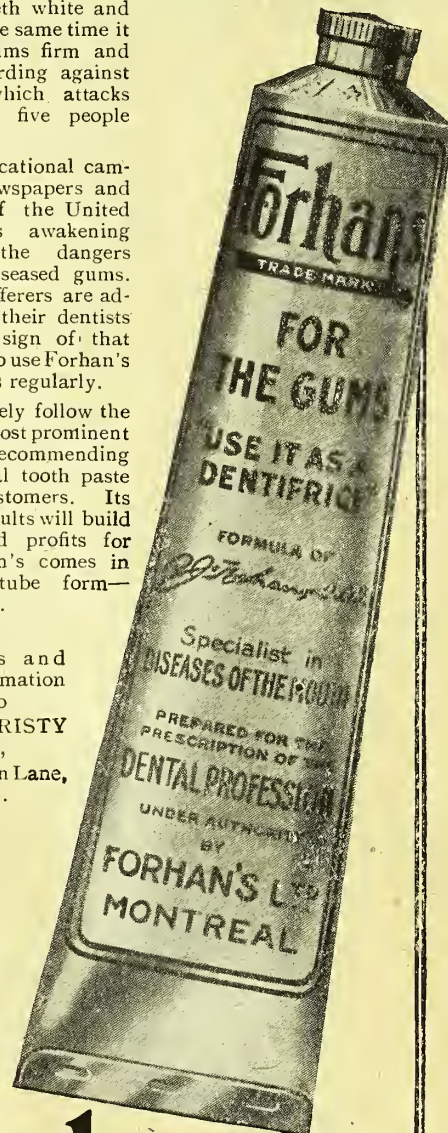
Forhan's for the Gums, used as an ordinary dentifrice in brushing the teeth, keeps the teeth white and clean. At the same time it keeps the gums firm and healthy, guarding against Pyorrhea, which attacks four out of five people over forty.

A strong educational campaign in newspapers and magazines of the United Kingdom is awakening adults to the dangers lurking in diseased gums. Pyorrhea sufferers are advised to visit their dentists at the first sign of that disease, and to use Forhan's for the Gums regularly.

You may safely follow the leads of the most prominent dentists in recommending this beneficial tooth paste to your customers. Its gratifying results will build goodwill and profits for you. Forhan's comes in convenient tube form—one size only.

For prices and further information write to

THOS. CHRISTY & CO.,
4-12 Old Swan Lane,
E.C. 4.



Forhan's

FOR THE GUMS

Brillantine Exotique

One of
the
**ARECO
SERIES**

Small size 1½ oz., 7/- per doz.,
in green, yellow and red,
exquisitely perfumed with
natural floral essences.



This product shown well sells well. The quality of the production is unsurpassed.

Brillantine Exotique is absolutely free of mineral oils. It is an article of superb appearance, elegantly packed, of unique character and possessing all the qualities of a real best seller.

Its low wholesale price of 12/- per doz. reputed 3 oz. leaves a handsome margin of profit. The minimum selling price is 1/6.

ARECO LIMITED,

LONDON 11 Southampton Row, W.C.

PARIS Rue Taibout, IX^e

INTRODUCTORY BONUS—SPECIAL.

With each order of 3 doz. a bonus of ½ doz. as a Sales Promoter.

Delphinus

TOILET PREPARATIONS

Face Cream, Dental Cream,
Brilliantine (Solid & Liquid),
Pomade Hongroise, Nail Polish,
Shampoos, etc.

Products of
Unvarying
Excellence

We do not incur heavy expenses in advertising to the public, but prefer to give our Clients the benefit of increased profits.

Sole Agents for Scotland :
Messrs. HENDRY & SMITH & Co.
83 Renfield Street, GLASGOW.

BE WISE! *Write us*
TO-DAY.

Prepared by
The Delphinus Mfg. Co.
45 Edward Street, Brighton.
Cables & Wires: Hongroise, Brighton.



Delphinus
TRADE MARK.

COPYRIGHT

BELDAM

BRITISH SPONGE

MADE OF PUREST RUBBER

A FINE SOFT TEXTURE DELIGHTFUL TO USE

Gedbolds



Beldam Rubber Sponges are remarkable for their smoothness, their softness, their capacity for absorption and their wearing qualities.

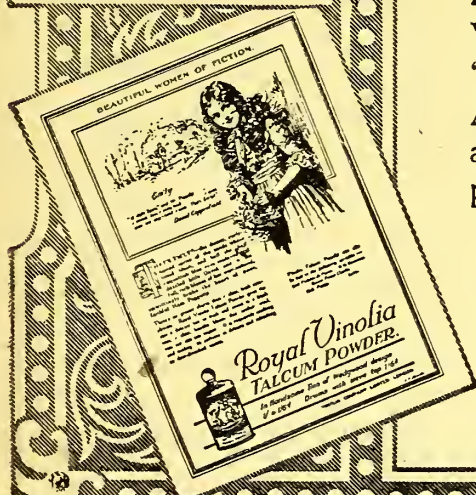
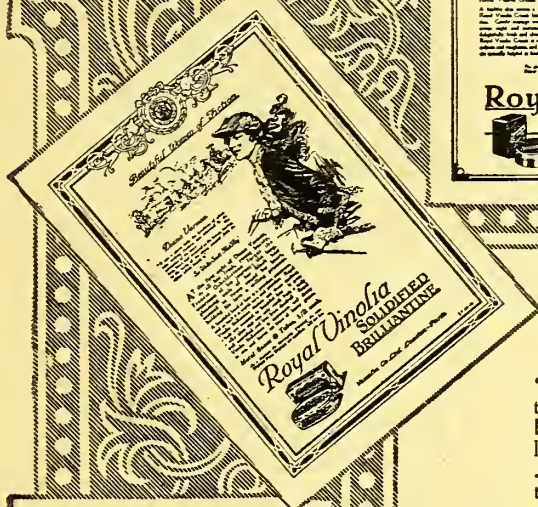
These Sponges make a most beautiful lather with the most indifferent soap and in the hardest water. They are healthy and invigorating to the skin.

Medical men recommend them. They are pure and odourless. They are not affected by boiling water or strong disinfectant.

Five Sizes. Price per dozen to Retailers from 13/6.

We invite inquiries.

The Rubber Sponge Dept., Beldam Tyre Co. (1920), Ltd.,
Brentford, Middlesex.



Read what "The Advertising World" says concerning our "Beautiful Women" Series of Press Advertisements:—

"The idea of a Toilet Preparation is closely allied with that of pre-eminent beauty and loveliness as represented by some of the most famous heroines of fiction. It is no less usefully allied to quality, refinement and good taste.

If for no other reason than the appearance of the advertisement, the advertiser's proposition would at sight be accepted as belonging to the first class.

The salesman is able to explain to the friendly instead of having to arouse the uninterested."

YOU get the advantage of this extensive Press Advertising when you handle the products of the Vinolia Company. The high quality of their Toilet Preparations, coupled with continuous advertising in the best papers in the country, has given them a foremost place in public favour and esteem.

We show specimens on this page of the "Beautiful Women" Series of Press Advertisements with which we are assisting the sales of our customers at the present time. It is good business to stock

ROYAL VINOLIA

VINOLIA COMPANY LIMITED, LONDON.

RV 418—29

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

		Price per oz. to Retailer.	Selling Price R.S.T.A.
PILENTA SOAP	-	10/-	1/-
A complexion soap.			
PROLACTUM	-	10/-	1/-
For the lips.			
PARSIDIUM JELLY	-	10/-	1/-
For wrinkles			
ALLACITE of ORANGE	22/6	2/6	2/6
A dressing cream BLOSSOM			
BORANIUM	-	22/6	2/6
A hair tonic.			
CLEMINITE	-	22/6	2/6
For a face lotion.			
COLLIANDUM	-	22/6	2/6
For a face tint			
PERGOL	-	22/6	2/6
A deodorant.			
STALLAX	-	22/6	2/6
For a shampoo.			
JETTALINE	-	31/6	3/6
For clearing the skin			
PHEMINOL	-	36/-	4/-
A depilatory.			
MENNALINE	-	36/-	4/-
For the eyelashes.			
MERCOLIZED WAX	-	31/6	3/6
A face cream.			
STYMOL	-	36/-	4/-
For oily complexions and blackheads			
BARSYDE	-	22/6	2/6
Dandruff eradicator.			
TAMMALITE	-	22/6	2/6
For grey or faded hair			
LIQUID PERGOL	-	31/6	3/6
To check excessive perspiration locally.			
BICROLIUM	-	22/6	2/6
For whitening the hands.			
HARAPOSA	-	22/6	2/6
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:

ALL WHOLESALE, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:

LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:

KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta)
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

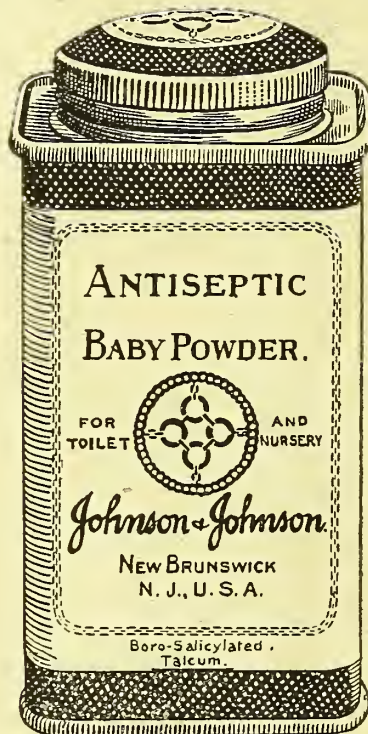
NEW ZEALAND:

SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:

DEARBORN, Ltd., Calle Santa 264, Buenos Aires.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON
British - Manufacture.

Made from the Best Talcums
and Delicately Perfumed.

Bonus given for order of 2 gross
and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd.
104 Golden Lane - - E.C.1.

TWO DAINTY LINES THE BEST ON THE MARKET.



Actual size.



In Screw-top Boxwood Cases and
Outers of 1 dozen with Showcard.

Per 4/6 doz.

Manufactured by

SOLPORT BROS., LTD.

184-190 Goswell Road, London, E.C.1.

Obtainable through all Wholesale Houses.

Now IN STOCK.
Packed in Pre-
war Style Alu-
minium Hinged
Boxes (enamelled
finish) and Show
Boxes of 1 dozen.
Per 6/- doz.

Pure Rubber BATHING CAPS



No. 3527.

Assorted Green, Red
and Blue,

30/- doz.



No. 3523.

Assorted Green, Red
and Blue,

34/6 doz.



No. 3366.

Assorted Black, Blue,
Red and Green,

18/- doz.



No. 3520.

Assorted Blue, Green
and Red,

40/- doz.

Subject to Usual Terms.

Wholesale and Export Only.

We are THE House for

COMBS

of Every Description.

Vulcanite, Galalith, Horn, Celluloid.



LARGE STOCKS.

LOW PRICES.

RELIABLE GOODS.

QUICK DELIVERY.

It will **PAY YOU** to send
your inquiries to

VERNON POWELL Ltd.

The Comb Specialists,

9-10 ST. ANDREW'S HILL, LONDON, E.C.4.

WILLIAM TOOGOOD, LTD.

77 Southwark Street - S.E.1

NOTICE OF ADVANCE IN PRICE

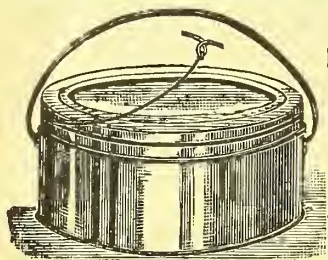
SINGLETON'S EYE OINTMENT

On and after 1st July, 1920, this old-time remedy will bear the face value of 2/9, instead of 2/3 as in the past, and retailers are asked to list accordingly.

Wholesale price per gross, £16. 0s. 6d. net.

The Northern Tin Canister Works,

6 Mersey Street,
LIVERPOOL.



*Patent Air Tight Slip-lid Tin
for Export.*

**Manufacturers
for the
Chemical Trade.**

**TIGHT SEAMING &
VARNISH BOTTLES
A SPECIALITY.**

Prompt Deliveries Assured.

F. MERTEN, Showcard, Poster, Lantern Slide, etc., EXPERT.**UNSOLICITED TESTIMONIAL.**

10 Castle Street, LIVERPOOL:

May 7/20.

Dear Sir,

Enclosed please find copy for cards for Soap Window Display. I leave the sizes and styles to you.

**YOUR CARDS ARE SPLENDIDLY DONE
AND THEY GET THE BUSINESS.**

My difficulty has been to keep pace with the Sales, as one cannot always depend on Manufacturers delivering goods in time. The one you did for a "Special Tooth Brush" I had to withdraw in 3 Days—**SOLD OUT!**

Yours truly, J. MILLING,
Proprietor of J. McGuffie & Co.

112 Warham Road, Harringay, London, N.4.

Dr. Williams' Pink Pills

and our other
Proprietaries
are now on the

P.A.T.A. AT FACE VALUE

IN response to the request of many members of the trade for a uniform selling price and definite margin of profit on our various preparations, we have arranged for these to be placed upon the P.A.T.A. list at face value

From 16th June, 1920, the following Prices will apply:—

	To Wholesalers per doz.	To Retailers per doz.	To the Public		To Wholesalers per doz.	To Retailers per doz.	To the Public
Dr. Williams' Pink Pills	26/-	29/-	3/-	Peptolaxa	10/9	12/-	1/3
Pinkettes (laxative)	10/9	12/-	1/3	Geo. Taylor's Nasal Balm	17/-	19/-	2/-

All Carriage Paid.

Terms Net.

Irish Prices on Application.

SPECIAL CASH WITH ORDER OFFER.

For Cash with Order we are prepared to supply 6 dozen lots of Dr. WILLIAMS' PINK PILLS at best price, viz.: 6 dozen @ 26/- per dozen, £7 16 0 (or assorted goods to same value), CARRIAGE PAID.

ALWAYS ADVERTISING.

ALWAYS SELLING.

SEE THAT YOU GET YOUR FULL SHARE OF SALES!

All correspondence to be addressed to:

G. T. FULFORD CO., Ltd. (of Canada), 36 Fitzroy Square, LONDON, W.1.

DELIVERIES FROM STOCK.

DRUGS.

Chemicals.

B.P. Syrups.

Milled Ointments.

Special prices for deliveries in quantities.

COMPRESSED TABLETS.

ASPIRIN gr. 5.

Price per 1000 ... 7/3

Packed S/c., botts. 25's ... 4/6 per doz.

" " 50's 7/3 "

" " 100's 13/3 "

DRUGS.

Chemicals.

B.P. Syrups.

Milled Ointments.

Special prices for deliveries in quantities.

COMPRESSED TABLETS.

Sulphate of Quinine

(Sugar Coated) 2 grs.

per 1,000 28/6

S/c., botts. containing :—

25's ... 11/6 per doz.

50's ... 19/6 "

100's ... 36/9 "

COMPRESSED TABLETS.

Cascara Sagrada

(Sugar coated) 2 grs.

per 1000

S/c., botts. containing :—

25's ... 3/6 per doz.

50's ... 5/3 "

100's ... 8/6 "

COMPRESSED TABLETS.

Phenacetin, 5 grs.

per 1000 ... 18/6

S/c., botts. containing :—

25's ... 7/6 per doz.

50's ... 14/- "

100's ... 25/- "

COMPRESSED TABLETS.

Formalin and Mint

per 1000 6 6

S/c., botts. containing :—

25's ... 4/9 per doz.

50's ... 7/- "

100's ... 12/- "

SACCHARIN TABLETS.

Guaranteed "Full Strength"

($\frac{1}{2}$ gr. 330 str.)

Packed in tins contg. 100, 9/- per doz. net

" botts. 9/6 " "

" Envelopes 8/6 " "

In Bulk per 1000 6/6

Per 1000 net.

" 5,000 in one delivery 6/3

" 50,000 " " 6/1

(Saccharin Tablets for cash with order can be posted by return.)

Customer's name and address printed on labels (6 doz. lots) if required.

Orders to the Value of £5 Carriage Paid to Destination in British Isles.

Ordinary Tablets kept in stock against orders.

Samples and Price List forwarded on application.

THE
TURNER DRUG & GALENICAL Co., Ltd.,
Manufacturing and Export Chemists,
ILFORD, E.

CLINICAL THERMOMETERS



War-time difficulties in the manufacture of these goods have now been entirely overcome. High prices still remain, but they are common to all. **THE MAIN THING IS TO GET RELIABLE QUALITY FOR THE MONEY—THAT WE GUARANTEE TO GIVE YOU.**

Every Thermometer we send out is verified and stamped at The National Physical Laboratory, Kew. Each one has stood the test and can be utterly relied upon. Our prices are as low as it is possible for us to make them and are no bar to a free sale. The public are willing to pay a good price for a good article.

To enable you to test our claims for yourself we make the following **SPECIAL OFFER** of a sample selection at a reduced rate. This offer holds good for one month only from date of this paper.

List Prices

Hospital pattern	per doz.	28/-
„ lens front	„	31/-
60-second plain	„	34/-
„ lens front	„	38/-
30 second plain	„	40/-
„ lens front	„	44/-

Special Offer

3 Hospital pattern, at list price	7/-
2 „ lens front	5/2
1 60-second plain	2/10
1 „ lens front	3/2
1 30-second plain	3/4
1 „ lens front	3/8
9 Thermometers, list price	£1:5:2

Each one in metal case.

This SPECIAL OFFER of 9 Thermometers costing at List Prices £1 5s. 2d. will be sent, carriage paid, for 21s. net cash with order. Money back if not satisfied.

Write for our illustrated Price List of Druggists' Sundries post free for the asking.

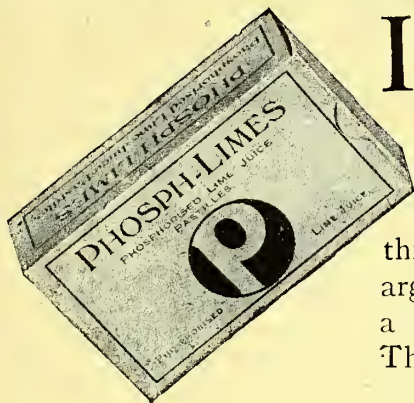
We are the right House for **BRITISH-MADE GOODS**—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water & Air Beds, Water & Air Cushions, Waterproof Sheeting, & every description of Rubber Goods.

BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

ELIMINATE THE "DOUBTS"

(*Cartwright Service
Sales Talk, No. 3*)



IT is a common saying, "When in doubt, don't." The whole trouble, of course, is the "doubt," a wretched little word which has lost to many pharmacists very considerable business that should have been theirs. Analysed, it resolves into nothing—I don't think, etc.; I am afraid, etc.—These negative arguments never won a campaign or discovered a continent, and just the same in business. They never pay rents or make dividends.

To-day is the day of the specialist. You specialised and won your qualification. We specialise in salesmanship and the ideas which make your pharmacy a household word in the locality.

In recommending a line to you, WE have no doubts about it. To-day we say, "Display Phosph. Limes, a tonic cooling pastille which contains Sodii Glycerophos and Terpeneless Lime Essence." We send with 28 lbs. and over, cartons, showcards, etc., free, sufficient to make most attractive centre for your window. At the same time make a display on your counter, talk Phosph. Limes to your customers, and your repeat order will come along without any "doubt."

Price—
28 lb. and over,
per 2/6 lb.

Retail—
7½d. for 2 oz.

Don't wait to see how a line will go, let your opponent watch you and—"DOUBT."

Illustration of show and sample on request.

W. B. Cartwright, Ltd
Rawdon near Leeds

Australia—
418 George Street, SYDNEY.
326 Flinders Lane, MELBOURNE.

New Zealand—
161 Hereford Street, CHRISTCHURCH.
Corner Albert and Durham Streets, AUCKLAND.

*"Rownsons
have it!"*

SALES BY TENDER.

It will pay you to watch carefully the lists of goods offered for sale by tender, appearing in the daily press.

Fix that firmly in mind. When customers demand, meet their requests. If you cannot, replenish stocks from the Biggest Business Deal on Record. £5,000,000—£10,000,000 worth of Government Surplus Stores, 50,000 items.

CASTOR OIL (Bulk Offer by "D" Dept.)

Pure Pharmaceutical
1st Pressings
2nd Pressings

In Bulk, Barrels,
Drums and
Cases

Large Quantities Available.

SOAP.

Pale Yellow, Crosfield's and Gossage's make, packed in 50-lb. boxes, containing 20 × 2½-lb. bars.

BEESWAX.

Zanzibar, Abyssinian, Benguella, Mozambique. Packed in bags of 1¾ cwt. each.

RUSSIAN TALLOW.

Packed in 5-cwt. casks.

DISINFECTANTS.

Sanitas,
"Okal,"
and other varieties.

JELLY.

Petroleum.

We can also supply—

MINERAL, RAPE, SWEET and OLIVE OILS, GLOVES (RUBBER), ISINGLASS, PARAQUIT, VERMIJELLI, NAPHTHA-
LINE PASTE, TURPENTINE.

Don't blame us if you are not supplied, we are announcing broadcast our desire to supply you. It is necessary for you to respond quickly in the manner indicated.

Telephone:
Cent. 1070
(10 lines).

ROWNSONS
ROWNSON DREW & CLYDESDALE LTD

Cables
"Rownsons
Cent."

ESTABLISHED 100 YEARS.

Head Office: 225 UPPER THAMES ST., LONDON, E.C.4.

Works: ELEVATORS & CONVEYORS, Maiden Lane, YORK ROAD, N.1.

Branches:

BELFAST ... 16 Donegall Square South.	GLASGOW ... 1552 Gt. Western Rd., Anniesland.
BIRMINGHAM ... 111 New Street.	LIVERPOOL ... C.S.D., Queen's Drive, Walton-on-the-Hill.
BRISTOL ... 3 Unity Street, College Green.	MANCHESTER... 70 Spring Gardens
LEEDS ... 2 Park Place.	

What Users of National Cash Register Systems say:

" . . . The benefits and protection this Complete National Cash Register System affords considerably surprised us. It is saving us pounds daily, and we are so well satisfied that recently we ordered another of your highest grade Registers and another Credit File. . . . "

W. BENNISON, Ltd.,
Chem sts.

153 King's Road,
Chelsea, S.W.

" . . . I cannot speak too highly of the assistance it gives; it practically eliminates the errors which ordinarily occur.

"The amount of information it furnishes about one's business is invaluable. In my opinion no single individual could do as much accurate work, or serve one as well, as this ever-ready and never-erring worker."

EUGENE MAC SWEENEY,
Chemist.

91 Patrick Street,
Cork.

"After three years I can confidently say that I would never be without one. It halves the clerical work, and all counter transactions are recorded at once and without any error."

HAROLD E. BAILEY,
Chemist.

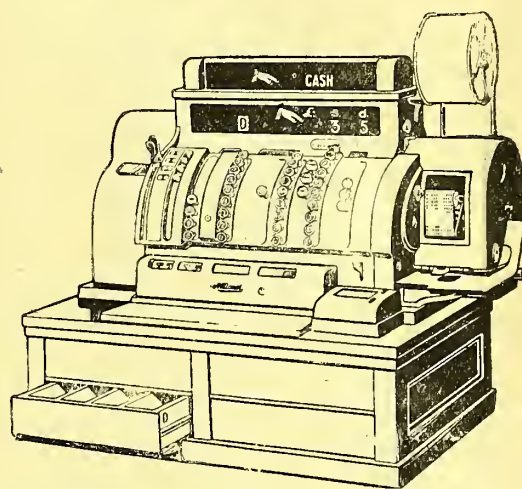
64 High Street,
Highgate, N. 6.

" . . . We are more than convinced that a 'National' is a necessity to be successful, they benefit everybody by doing all you claim for them.

"They are not only an excellent check on all transactions but save time, work, and worry. . . ."

A. M. PRICE,
Chemist.

225 Great Cheetham Street,
High Broughton, Manchester.



THESE few extracts from the hundreds of letters we have received from users of National Cash Registers suggest that shopkeepers do not fully appreciate the value of "Nationals" until they have used them.

Our claims for National Cash Registers are endorsed by hundreds of thousands of users.

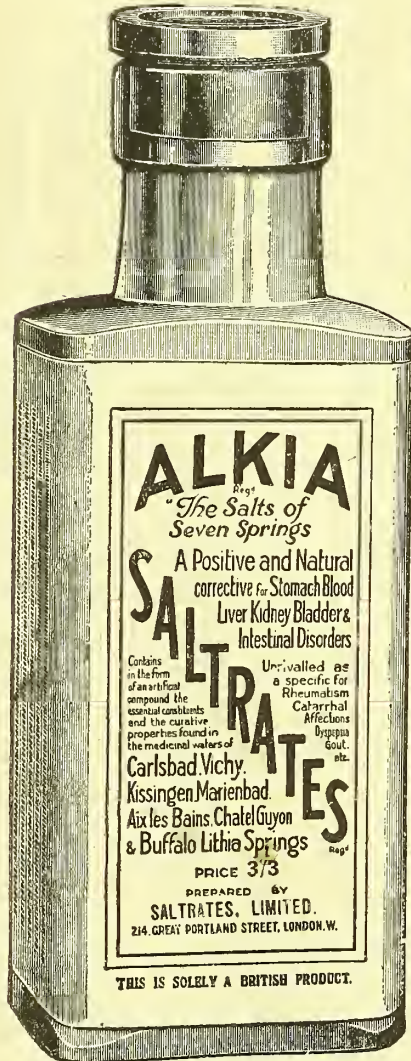
Many suggestions from shopkeepers are embodied in our up-to-date registers, the reason for their great popularity is therefore obvious.

May we send full details to help you realise how much "Nationals" will do for you, Mr. Chemist? Write for Special Booklet 5a. Please mention C. & D.

The National Cash Register Co., Ltd.
225 Tottenham Court Road, London, W.1.

Two Lines which you, Mr. Chemist,

They always mean a pleased and satisfied Customer



ALKIA SALTRATES.

A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Protected on P.A.T.A. at the full face value of 3/3 a large bottle.

A FEW OF THE OF ALKIA SALTRATES AND who have written us praising these



Mr. A. F. BETTINSON,
Founder and Manager,
National Sporting Club.



Mr. EUGENE CORRI,
Famous Referee.



JIMMY WILDE,
World's Champion Boxer



ALFRED FELTON,
World's Sculling
Champion.



JACK DONALDSON,
World's Champion
Sprinter, Record Holder
for 75, 100, and 125 yards.



ALFRED SHRUBBS,
Champion Long-distance
Runner, Holds Nine
World's Records.

FURTHER ENDORSEMENT.

Amongst the hundreds of other well-known people from whom we have received letters telling us of the benefits they have derived from using our products are:-

Fred Fulton; Eddie McGoorty; Jim Sullivan; Johnnie Basham; Young Healy; T. Descamps; Ted Lewis; Tom Payne; W. R. Applegarth; W. G. George; J. E. Deakin; Ernest Barry; W. G. East; D. C. Hatfield; G. Rogers; Arthur Nightingale; W. J. Bailey; Harry Martin; J. B. Hobbs; Phyllis Monkman; Maidie Scott; Jock McKay.

Not designed as the cheapest preparations of their

YOU CAN STOCK THESE GOODS ON GUARANTEED SALE TERMS.

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted. Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present extensive advertising campaign.

can Recommend with Full Confidence

because they do exactly what our advertisements say.

PROMINENT USERS

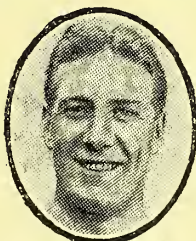
REUDEL BATH SALTRATES,
products in the highest possible terms.



GEORGES CARPENTIER,
*European Heavy-weight
Champion.*



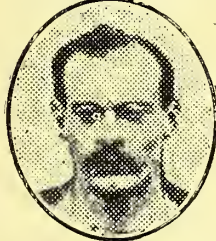
JOE BECKETT,
*English Heavy-weight
Champion.*



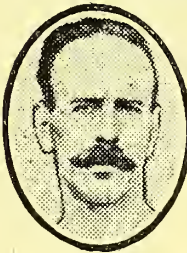
BILLY WELLS.
The Famous Boxer.



C. W. HART,
*Champion Distance
Runner, Holds Two
World's Records.*



EDGAR C. HORTON,
*Champion Long-distance
Walker, Holds Eleven
World's Records.*



H. V. L. ROSS,
*Champion Distance Wal-
ker, Twice Winner London
Brighton Walk, Holds
Three World's Records.*

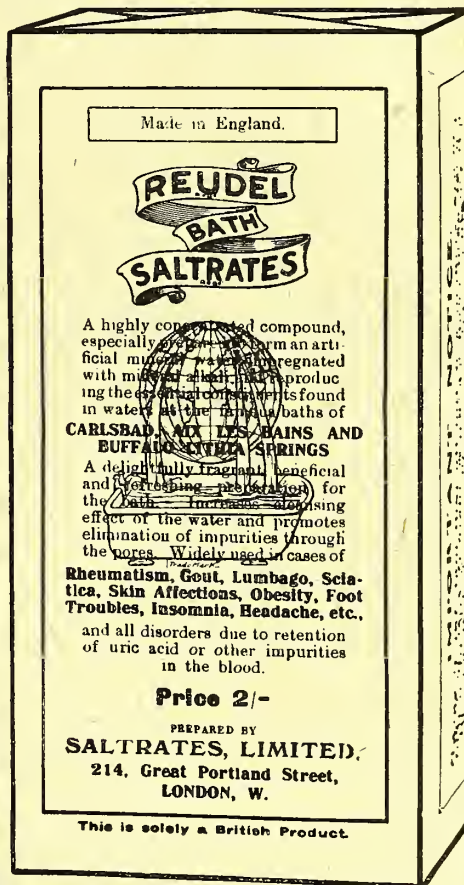
**Thousands of commendatory letters on file,
and open to examination by anyone.**

Members of the medical profession, trained nurses, prominent business men, famous actors and actresses, men well known in the Army, Navy, sporting world, and all walks of life are amongst thousands of the correspondents who have written us praising our Saltrates in the highest possible terms after having experienced the remarkable curative effects. The ethics of the medical profession do not permit our making public any physicians' names, but our files of other commendatory letters are open to inspection by anyone at any time.

WE CAN GUARANTEE IMMEDIATE DELIVERY OF ORDERS FOR ANY QUANTITIES.

We are fortunate in being able to announce that foresight shown in the laying in of very heavy stocks of supplies in anticipation of the shortage which afterwards developed, *still enables us to guarantee full and prompt delivery of orders for any quantities.* Therefore, in spite of the present raw material difficulties and specially high drug costs, we are as yet making no advances in our prices, which remain on a pre-war basis.

REUDEL BATH SALTRATES.



The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes.

Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Now being extensively advertised.

Protected on P.A.T.A. at the full face values of 2/- and 3/3.

kind, but the best producible, regardless of cost.

To Perfumers & Druggists etc.

You cannot do better
than place your orders for

BOTTLE CAPPING SKINS

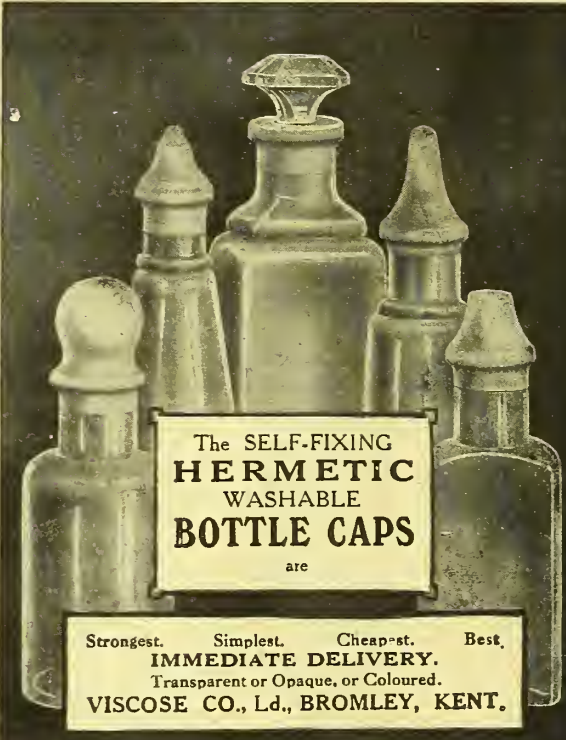
OPAQUE & TRANSPARENT
with R. RAWLEY.

LONDON MANUFACTURE
PROMPT DELIVERY

SAMPLES AND PRICES ON APPLICATION.

ROBERT RAWLEY

Harcourt House,
149 GRAY'S INN ROAD, LONDON, W.C. 1



The SELF-FIXING
HERMETIC
WASHABLE
BOTTLE CAPS
are

Strongest. Simplest. Cheap-st. Best.
IMMEDIATE DELIVERY.
Transparent or Opaque, or Coloured.
VISCOSE CO., Ld., BROMLEY, KENT.

ESTABLISHED 1889

SEND FOR

Transparent BAUDRUCHE

TO

R. LECONTE & CO.

Capping Materials Specialists,
7 & 8 South Street, FINSBURY,
LONDON, E.C. 2.

PHONE: CLERKENWELL 1588. WIRES: "ETNOCEL, AVE, LONDON."

WE ARE ACTUAL MANUFACTURERS.

Harrods SALE OFFERS FOR CHEMISTS

Harrods wonderful sale lasts for SIX DAYS ONLY
—July 5 to 10. Buy your needs while the Sale lasts
and save money!

BROMO PAPER In case of 72/6
50 packets 75/- 10 cases (not less). Per case

GAYETTY PAPER 87/6
In case of 50 packets 90/- In lots of 10 cases Per case

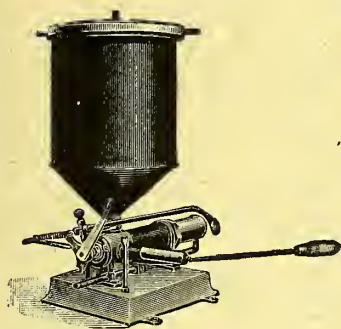
SURGICAL GAUZES
ALEMBROTH. In 100-yard rolls. Yard wide Per roll 15/-

BORIC Ditto ditto
DOUBLE CYANIDE Ditto ditto
CARBOLIC. In 6-yard rolls. Yard wide. 12/-
138/- Gross. Per 12 rolls

DOUBLE CYANIDE Ditto ditto
TR IODI MIT B.P. In 6/9
1/2 inch ester quarts. Per lb.

TR BENZOIN CO B.P. 6/9
In Winchester quarts. Per lb.

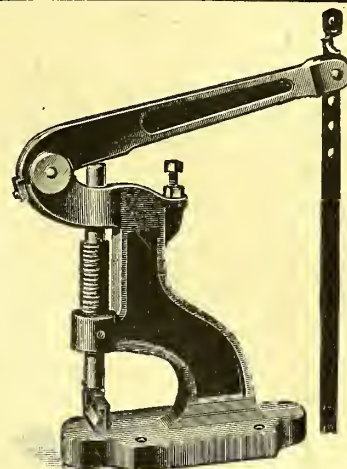
HARRODS LTD. LONDON SW 1



MACHINE for FILLING COLLAPSIBLE TUBES. From 1 to 10 gallons CAPACITY. Output 30 to 40 gross tubes per day.



MACHINE FOR CLOSING AND FOLDING COLLAPSIBLE TUBES. Suitable for all sizes of tubes. $\frac{3}{8}$ " to $1\frac{1}{2}$ " dia.



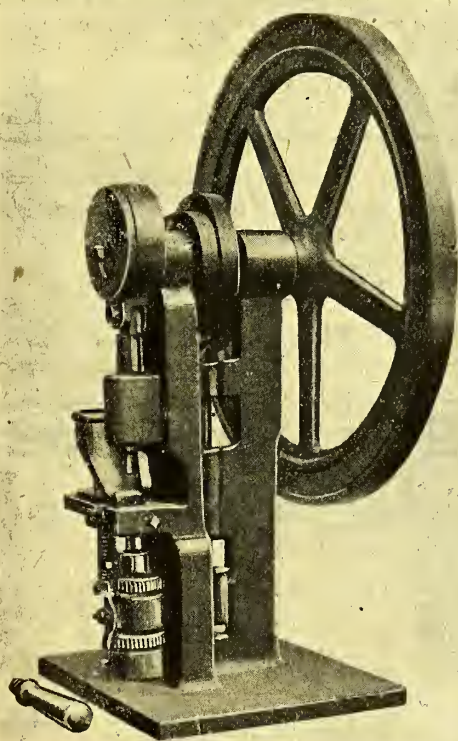
MACHINE FOR FIXING CLIPS to ends of collapsible tubes.

Can be seen in operation at—

BROOKS, PEEL & CO., LIMITED

24 CITY ROAD, LONDON, E.C.1.

MANUFACTURERS of Collapsible Tubes in LEAD, TIN-COATED and PURE TIN. SPRINKLERS for PERFUMES, BRILLIANTINE, CREAM, &c. SCREW-CAPS for JARS, &c., in WHITE or LACQUERED TINPLATE, NICKELLED ZINC, ALUMINIUM, &c. SHAVING-STICK CASES, LIP SALVE TUBES, &c. &c.



The "PREMIER" Hand Tablet Machine.

THE "PREMIER" Tablet Machine has been designed to meet the demand for a strong reliable machine at a reasonable price, capable of producing tablets of any weight or size up to $\frac{1}{2}$ -in. diameter.

Tablets made on this machine are equal in every respect to those made on the more expensive power machines.

We recommend this machine as being the most reliable and efficient yet placed on the market.

Further particulars and price on application to

The
LIGHT ENGINEERING COMPANY,
Limited,

Sopwell Lane - - ST. ALBANS.

J. F. BUCKLEY, Manager.

TIN BOXES AND CANISTERS

OF ALL KINDS,
PLAIN OR DECORATED,
MADE SPECIALLY FOR
THE WHOLESALE
DRUGGISTS' TRADE

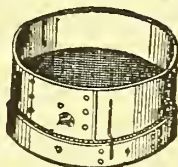
BY
THE JOHN DALE MFG. CO.
NEW SOUTHGATE,
LONDON, N. 11

"Mayfair" Straw Hat DYES.

Mayfair Chemical Co.,
11 Queen Victoria Street,
LONDON, E.C.4.

Tel. No. : CITY 3373.

Tel. Add. : "AGENDA, CANNON, LONDON."



For your **Sieves and Wire Gauze** try the actual Makers!

S. RAMSEY & CO.,

198/202 ST. JOHN STREET, E.C. 1.

Telegrams : "Methodical, Smith, London."

Telephone : Holborn 6337 (3 lines).

SAFETY RAZOR SHARPENING

BY LATEST ELECTRICAL MACHINERY.

We guarantee a perfect edge on ANY blade. ANY make.

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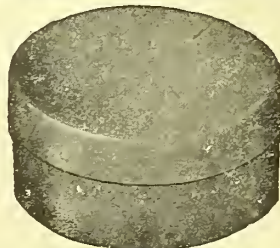
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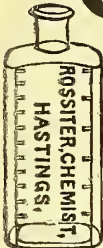
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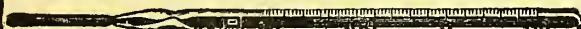
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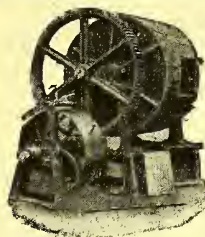
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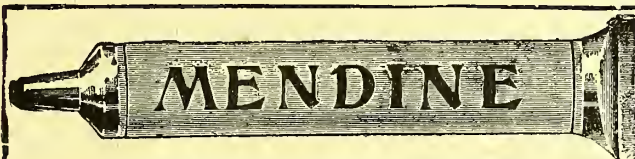
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Index to Volume XCII.

AN Index to Volume XCII. (which finished with our issue of June 26) is in preparation, and will be ready in a few weeks. It will be sent post-free to any of our subscribers who send us postcards intimating that they desire copies.

Coming Events.

Wednesday, July 7.

Plymouth Pharmacists' Tennis Club. Motor trip to Torquay and Paignton. Tickets (inclusive of tea) 10s., from Miss Ball, Park's Pharmacy, Mutley Plain.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting.

ZANZIBAR CHILLIES.—The Sultan's dominions produced during 1919 835 frasilas of chillies of a declared export value of Rs.6,784. [Frasila=35 lb.]

RHODESIAN BISMUTH.—A trial shipment of bismuth from Rhodesia (says "The Times Trade Supplement") has realised approximately 700*l.* per ton.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Malaria Clinics Prescriptions.

The Ministry of Pensions intends to issue special duplicate prescription forms for Malaria Clinics similar to those in use for Insurance dispensing, and to arrange that these shall be dispensed by chemists at the same rates as for Insurance dispensing. It has further been arranged that these prescriptions shall be priced at the South-Eastern Pricing Bureau, 25 Cedars Road, Clapham, London, S.W.4, so that chemists should not send such prescriptions to local pricing offices. The Malaria Clinics are not yet established, but the method of issuing prescriptions will be on the lines indicated above.

Drug and Chemical Workers' Wages.

The "Drug Union News" gives the following as the terms agreed upon at the Conference of the Drug and Fine Chemical Manufacturers' Association and the Amalgamated Society of Pharmacists, Drug and Chemical Workers (*C. & D.*, June 12, p. 45):

Increases on present rates of—10s. grade 1; 7s. 6*d.* grade 2; 5s. grade 3. Women, grades 1, 2, 3, and 4, 5s.; and under eighteen, youths 2s. 6*d.*, girls 2s. All these amounts to be added to the present rate being paid. Advances to date from July 1.

The minimum rates of pay are: Men—Grade 1, 75s.; grade 2, 70s.; grade 3, 65s. Women—Grade 1, 45s.; grade 2, 43s.; grade 3, 40s. 6*d.*; grade 4, 37s. 6*d.*

These figures were submitted to the branches of the Drug Union, and accepted. A general meeting was held at the Shoreditch Town Hall on June 22, about 1,600 workers being present, when a resolution was moved that the terms be accepted pending the new grading. Discussion mainly centred round the position of the women and Grade 3 of the men, 65s. being considered below the living-wage line. The resolution was carried unanimously. Representatives of the Drug Union have since conferred with the Local Associations Executive of the Pharmaceutical Society of Great Britain in order to come to an agreement as to minimum wages in the retail trade.

Chemist's Fatal Accident.

On June 22, Mr. Leonard Frederick March, chemist and druggist, eldest son of Mr. Frederick March, chemist and druggist, Torquay, was returning on his motor-bicycle from a tour in the Midlands, when, about two hours' ride from home, he found he was overtaking a motor-lorry with wagons attached, and, the road being narrow, applied his brake. At this moment the outer cover of one of his tyres slipped, and he consequently lost control of his machine; a fall resulted, and when picked up Mr. March was found to be dead. An obituary notice appears on p. 77.

Poisoned-chocolate Mystery.

Further evidence was given at York, on June 23, in the case in which Thomas Liddle, farmer, is charged with attempted strychnine-poisoning (*C. & D.*, June 26, p. 131). Two witnesses having deposed to receiving chocolate by post, Mr. John Evans, F.I.C., Ph.C., Sheffield, public analyst for York, said that the chocolate which he received in the paper marked "E. R. Dodsworth" showed signs of having been tampered with. It contained nearly $\frac{1}{2}$ gr. of strychnine. Half a grain was fatal, but smaller doses had been known to kill. The two chocolates which were labelled "W. T. Rust" he found to contain 0.51 gr. and 0.52 gr. respectively. The largest medical dose was $\frac{1}{16}$ gr. He analysed the contents of a tin of decomposed meat found on Liddle's farm by the police, and found it had strychnine in the proportion of 0.09 gr. per ounce. The person who made the mixture in the tin must have had strychnine available to put with the meat. It had decomposed with age, and must have been made a very long time. The accused, who reserved his defence, was committed for trial.

C C

Contracts.

The following Government contracts have been notified :
ADMIRALTY.—*Carbolic Soap*.—Edward Cook & Co., Ltd.; John Knight, Ltd.

MINISTRY OF MUNITIONS.—*Chloride of Lime*.—The United Alkali Co., Ltd. *Creosote*.—The South-Western Tar Distilleries. *Disinfectants*.—Burt, Bolton & Haywood, Ltd.; Jeyes' Sanitary Compounds Co., Ltd.; Killgerm Co., Ltd.; McDougall Bros., Ltd.; Newton, Chambers & Co., Ltd.; Phoenix Sanitary Co.; Quibell Bros., Ltd.; The "Sanitas" Co., Ltd.; R. Young & Co., Ltd.

INDIA OFFICE.—*Cresol*.—The "Sanitas" Co., Ltd. *Lint*.—Robinson & Sons, Ltd. *Paraffin, Soft*.—Pilchers, Ltd. *Tetanus Serum*.—Burroughs Wellcome & Co.

CROWN AGENTS FOR THE COLONIES.—*Drugs*.—Burgoyne, Burbidges & Co., Ltd.; Southall Bros. & Barclay, Ltd.; Society of Apothecaries of London. *Lymph*.—Lister Institute. *Quinine*.—Howards & Sons, Ltd. *Tarco*.—R. S. Clare & Co., Ltd.

The following tenders have been accepted by the bodies named :

Belper Guardians.—Mr. J. G. Marshall, chemist and druggist, drugs.

Cambridge Guardians.—Mr. J. Evans, chemist and druggist, drugs, etc.

Cranbrook Guardians.—Mr. A. J. Gray, chemist and druggist, Hawkhurst, medical appliances.

Maidstone Guardians.—Mr. F. J. Oliver, chemist and druggist, Bank Street, drugs.

Wirral Guardians.—R. Sumner & Co., Ltd., drugs, etc.

Wolstanton and Burslem Guardians.—Mr. L. W. Piggin, chemist and druggist, Tunstall, drugs, etc.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report :

An inquest was held on the body of Thomas Percival (45), at the Town Hall, Wolverhampton, on June 22. It was stated that a poisonous liquid was given him at the tuberculosis dispensary in the town, to drop on a mask which he had been ordered to wear, and he subsequently drank some of this liquid. A medical witness said that death was due to creosote and carbolic poisoning. A verdict of "Suicide while of unsound mind" was returned.

An inquest was held at Chirk, on June 25, on the body of Winifred Burgoyne (20), who died after taking a dose of quinine understood to weigh $\frac{1}{4}$ oz. The evidence showed that the quinine [sulphate?], which was purchased in Oswestry, was put in a saucepan with a cupful of gin, and the mixture was boiled. The resulting solution was observed to turn a spoon green. A medical witness stated that his *post-mortem* examination had not revealed the cause of death, and remarked that poisoning by quinine is extremely rare. He added : "Quinine is not a poison, and there would be nothing wrong in a chemist supplying it." The inquest was adjourned.

Birmingham.

Scarlet fever is again prevalent in the district. The continued holding-up of New Street for repairs is causing grumbles loud and deep.

It appears that the railway-ticket of a Birmingham trader was inspected six times during a recent journey of thirteen miles !

On a showcard in the window of a local branch of a limited company trading as chemists (and otherwise), phosphorus is spelt "phosphorous"—an old but still troublesome "catch" to the unwary.

The Civil Liabilities Department, lately conducted by Mr. Marshall Freeman with the assistance of one male and three female clerks, now comprises (under other management) double those numbers, at salaries that one shudders to think of.

Liverpool.

A fatal case of plague has been reported here. Some complaints of falling off in the retail trade are heard, but July is expected to bring a rapid recovery.

A telling cartoon, issued on behalf of the University of Liverpool, is being displayed throughout the city.

The annual special issue of the *C. & D.*, with its full measure of attention to Liverpool, is being perused with appreciation.

Damage estimated at 40,000*l.* was caused by an outbreak of fire at the works of the North-Western Rubber Co., Litherland, on June 26.

Mr. William P. Evans (chairman of Evans Sons Lescher & Webb, Ltd.) had a pleasant voyage home from Canada, and returned to Hanover Street on June 24.

Messrs. H. Humphreys Jones, John H. Robinson, and W. J. Williams visited London on June 29 on business connected with the British Pharmaceutical Conference.

Parties of students have lately been visiting the laboratories of Evans Sons Lescher & Webb, Ltd. The following acknowledgment has been received by the directors from the Manchester College of Pharmacy : "A party of sixty-one students from this school are unanimous in their praises of the handling by your staff and of the gentlemen who showed them round. They wish to thank you for a most interesting and instructive afternoon and for your hospitality." Mr. Sendall described the laboratories and Messrs. Nicholson and H. M. Woods supervised the general and catering arrangements. Mr. Woods took the party to New Brighton for the evening. Other recent visits have included thirty members of the Rochdale Pharmacists' Assistants' Association, and Mr. E. Griffiths (North Staffordshire School of Pharmacy) with a party of students.

Manchester.

Benger's Food, Ltd., Otter Works, have contributed 500*l.* towards the endowment of a lectureship in pharmaceuticals in the pharmaceutical department of the medical school of Manchester University, this department to become part of the proposed pharmacological institute when established. The Manchester University Appeal Fund, of which this gift forms part, has reached a total of 207,921*l.*

Sheffield.

The first session of the Sheffield Pharmaceutical Students' Association has been most successful.

Sheffield is well represented on the new North-Eastern Federation by Mr. J. Gilbert Jackson and Mr. H. Antcliffe.

The Sheffield Guardians are offering to take in any patient for whom treatment cannot be obtained at the general hospitals.

The holiday season is materially affecting trade. Several pharmacists (including Mr. J. T. Appleton, who is motoring in Devonshire) are away from home.

Surprise is expressed locally that an applicant for a training grant, if he appeals against an unfavourable decision of an Interviewing Board appointed by the Ministry of Labour, is likely to find himself before a Board constituted partly from the Board from which he has appealed, and even having the same chairman.

Miscellaneous.

FIRE.—An outbreak of fire occurred at the premises of H. Keller & Co., chemical manufacturers and merchants, Colonial Avenue, Minorities, London, E. 1, on June 23. A defective flue is believed to have been the cause. Some damage was done to the fourth floor of the building.

WHOLESALE DRUGGISTS' CRICKET CHAMPIONSHIP.—A match played at Crouch End, London, N., on June 19, when The British Drug Houses Club was at home to Allenburys Club, resulted in a win for the visitors. The scores were : The British Drug Houses, 54; Allenburys, 66 for 9 wickets.

THEFT OF OPIUM.—At Thames Police Court, London, on June 24, Henry Leland and James Daley were charged with being in unauthorised possession of 178 lb. of opium, valued at 890*l.* The evidence showed that the accused were arrested while one of them was driving a van (for the possession of which they could not account) containing the opium. They were remanded.

BETEL NUT CAUSES DEATH.—A verdict of "Accidental death" was recorded at an inquest held in Marylebone, London, on June 26, on the body of Iqbal Ali-Beg, an Indian cadet at the Royal Military College, Sandhurst, who swallowed a betel nut while at the theatre. A medical witness stated that death was due to meningitis, following abscess of the lung, set up by irritation from inhaling chewed betel nut. In reply to the coroner, a witness stated that in India the nuts were boiled in milk and then chewed and swallowed: he himself had eaten a pound in a day.

SWIMMING TEAM RACE.—A swimming team race, The British Drug Houses v. Parke, Davis & Co., took place recently at the Essex Road Swimming Baths, London, and resulted in a win for the latter team. The times for the full distance of 180 yards were: P.D.S.C., 129 seconds; B.D.H.S.C., 134½ seconds. The teams were as follows: *The British Drug Houses*—Messrs. F. Stringer (capt.), F. Low, W. J. Kimsey, H. J. Pittman, C. W. White, W. Walton: *Parke, Davis & Co.*—Messrs. H. A. Murray (capt.), A. T. Bradford, A. T. Tyler, C. H. King, F. A. Lawman, C. L. Mertling.

PRESENTATION.—The pharmacy students who have just finished a nine months' course at the South-Western Polytechnic Institute, Chelsea, London, S.W., held a whist-drive and concert on June 25. During the evening Mr. L. G. Jones, on behalf of the students, presented Mr. C. Morton, Ph.C., head of the pharmacy department, with a silver cigarette-case, suitably inscribed, and Mr. F. Arnall, B.Sc., A.I.C., lecturer in chemistry, with a tobacco-pouch. In the course of his reply, Mr. Morton mentioned that the Institute would soon have a large manufacturing laboratory in running order.

LONDON CHEMISTS' GOLFING SOCIETY.—A match for the President's prize was played at Crews Hill on June 24. Play was as follows:

G. F. Deeth (winner)	3 up.	T. W. Theakston	3 down
W. A. Attwood	1 up.	T. E. Lescher	4 down
H. W. Bartlett	1 down.	M. W. Carmichael	4 down
G. Beaton	3 down.	W. Duncan	4 down

Among the Scottish News (p. 68) will be found an account of an impromptu match subsequently played by four pharmacists who had owned or assisted in the same business in Elgin.

SALE OF FOOD AND DRUGS ACTS.—At Liverpool, recently, William C. King, spice merchant, Hanover Street, was summoned for having sold ground cinnamon which was adulterated with 4 per cent. of sand and siliceous matter. For the defence, it was stated that the defendant had machinery for grinding spices, but in December last he was moving his plant to a new factory, and consequently purchased ground cinnamon from another firm. The bark from which cinnamon was ground was allowed to remain on the soil for some time after it had been stripped off the plant, and sand naturally clung to it. The average quantity of siliceous matter found in cinnamon was estimated by the prosecution at from 1 to 1½ per cent. Defendant was fined 5*l.*, and ordered to pay 1*l.* 1*s.* costs. A further summons for giving a false warranty in respect of ground cinnamon was dismissed on payment of 1*l.* 11*s.* 6*d.* costs.

INDUSTRIAL COUNCILS AND LABOUR EXCHANGES.—In the course of the sitting of the Select Committee on Labour Exchanges, on June 28, Mr. J. W. Whitley, M.P., the Deputy Chairman of the House of Commons, gave it as his opinion that if the industries, through the Joint Industrial Councils, found themselves able to take charge of unemployment and under-employment, they would be able to do the work much more cheaply and more effectually than it could be done under a State organisation. He thought the Insurance Bill now before the House would enable the suggestion to be put into operation. Very few industries were as yet sufficiently organised to take on the duty. Lord Asquith, who followed, said that in his view the cost of the Exchanges was out of all proportion to their value. They were an interference by the State between employer and employé, at great cost to the community, and they had proved a disintegrating

force. The system was a direct incentive to unemployment.

IN THE COURTS.—At Lincolnshire Assizes, recently, Walter Bradley was sentenced to four months' hard labour for smashing the shop-window of Mr. Charles Wass, chemist and druggist, Holbeach, in order (according to the prisoner's own statement) to be locked up. The damage is estimated at 25*l.*—Charged on remand at Carmarthen, on June 25, with the murder of his first wife, Harold Greenwood, solicitor, Kidwelly, was further remanded (*C. & D.*, June 19, p. 38).—At the Old Bailey, London, on June 30, George A. Jennings and Austin H. Dockney were respectively sentenced to twelve months' hard labour and nine months' imprisonment in the second division for conspiring to defraud and obtain money by false pretences from George Toulmin & Sons, Ltd., printers, Preston (*C. & D.*, June 19, p. 38).—At Bow Street Police Court, London, on June 30, Walter Rankin (forty), Keston Road, South Tottenham, N., was remanded in custody on a charge of attempting to obtain 25*l.* by false pretences. The evidence showed that on June 13 the accused introduced himself to a Mr. Brooker, at Southend, as a medical man who was in possession of a cure for cancer, and subsequently attempted to borrow money from him. When arrested, a vial, some pills, and a stethoscope were among the things found in his possession. He professed that his invention was worth about 40,000*l.*

MEETING OF CREDITORS.—A private meeting of the creditors of Howard Ephraim Hall, chemist and druggist, trading as E. Hall & Son, 41 George Street, Luton, was held on June 28, when Mr. S. H. Carr, of Sangers, the largest trade creditor, was elected to the chair. A statement of affairs was presented, which had been prepared by Mr. Thomas Keens, I.A., 29 King Street, Luton, and this showed ranking liabilities of 944*l.* 18*s.* The indebtedness to the trade was 878*l.* 4*s.* 8*d.*, and there were unsecured cash creditors for 66*l.* 13*s.* 4*d.* In addition, there were fully-secured creditors for 423*l.* 17*s.* 8*d.*, the securities held being valued at 566*l.* The assets were estimated to realise 930*l.* 3*s.* 9*d.*, less 68*l.* 7*s.* for preferential claims, leaving net assets of 861*l.* 16*s.* 9*d.*, or a deficiency of 83*l.* 1*s.* 3*d.* The assets were as follows: Stock-in-trade, fixtures, fittings, etc., at cost, 1,250*l.*, estimated to realise 700*l.*; book debts expected to produce 70*l.* 10*s.* 5*d.*; rent receivable, 17*l.* 11*s.*; and surplus from securities in the hands of creditors, fully secured, 142*l.* 2*s.* 4*d.* Mr. Keens explained that the fully-secured creditors are the Bank and an insurance company. It was stated that, in addition to the assets mentioned on the statement of affairs, the debtor possessed twenty preferential shares in Wright, Layman & Umney, Ltd., and also some stock in a West African company. The debtor took over the business on the death of his father in 1915. He received nothing from the father's estate, but was entitled to purchase the business for 700*l.* and discharge that amount by a cash payment of 400*l.* and the balance by instalments. During 1915 the turnover was 2,413*l.*, in the following twelve months it increased to 2,700*l.*, but in 1917 it dropped to 2,096*l.*, and in the succeeding year it rose again to 2,665*l.* During 1919 the sales were 3,228*l.* Up to June of the present year the sales have been a little less than 1,000*l.* The premises were held at a rental of 164*l.* per annum, but a portion was sublet. Up to 1916 the takings were 3*l.* per week, but since that date they had been from 4*l.* to 5*l.* weekly. Latterly creditors had been pressing, and a deed of assignment had already been executed, but not registered. After a short discussion, the creditors decided that the debtor should execute a deed of assignment, with Mr. Keens and Mr. Parkin S. Booth, Kimberley House, Holborn Viaduct, London, E.C., as joint trustees.

AUSTRALIAN IMPORT RELAXATIONS.—As from May 19, the Australian Government has removed the import prohibitions hitherto in force on a number of items, including potable spirits, perfumed spirits, bay rum, cocoa and chocolate, confectionery, perfumery, sheep-dip, alcohols and ethers, rennet, calcium carbide and many other chemical products, paints and colours, and coal-tar oils.

Irish News.

Brevities.

In view of the present inadequate postal facilities, Lumex, Ltd., 35 Dame Lane, Dublin, photographic specialists, have decided to open works in Belfast.

Mr. G. W. Hawthorne, Ainsworth Pharmacy, Belfast, has received many expressions of sympathy on the death of his little son, who only survived his birth by a few days.

During the riot in Fermoy, on June 27, the establishments of Dr. Magner, Queen's Square, Mr. D. Flynn, Mr. Joseph Broderick, and Dr. O'Brien were seriously damaged.

Mr. J. Simpson, R.D., will shortly open a drug-store at Dungiven, co. Derry. Mr. Simpson served his apprenticeship with the late Mr. Josias Peel, Armagh, and has been for a number of years with J. E. O'Neill & Co. at Maghera.

At Enniskillen Quarter Sessions, on June 28, a claim for 5,000*l.* compensation by Mr. Robert Stevenson, R.D., for malicious injury to his drug-store (*C. & D.*, May 22, p. 67) at Town Hall Street, Enniskillen, on May 12, was heard, the respondents being the urban council. The claim arose out of the destruction of the income-tax offices by Sinn Feiners. Mr. Stevenson's shop is on the ground floor, and his stock was destroyed by water. After evidence, the Judge awarded Mr. Stevenson 1,550*l.* Dr. J. W. Dickson, Pettigo, late proprietor of the Medical Hall, and the owner of the premises, was awarded 600*l.*

Scottish News.

Brevities.

Mr. Andrew Hogg, chemist and druggist, Leven, recently presided at the annual general meeting of the Leven Gas Co.

D. G. Munro, Conon Bridge, has applied to the Ross-shire County Council for a licence to sell agricultural poisons.

Mr. Sutherland, chemist and druggist, has purchased the business of the late Mr. E. J. Pike, chemist and druggist, Eskbank. Mr. Sutherland was formerly with Boots, Ltd.

Miss Grace C. Leitch, daughter of a Scottish pharmacist, Mr. David Leitch, recently qualified for the degree of Doctor of Philosophy at St. Andrews University. Miss Leitch has also gained the M.A., with honours in mathematics, and the B.Sc. She is an assistant to Professor Irvine at the University.

Having paid a surcharge of 3*d.* on a letter addressed to him a Scottish pharmacist found the contents to be a typed circular letter from a candidate, soliciting his vote at the Executive election! "The Chancellor of the Exchequer should be very grateful to this aspirant for pharmaceutical honours," caustically adds the recipient.

Not long ago there was reported in this column the case of a young lady who, being told that her photographic film had emerged from development a perfect blank, replied: "There'll be nothing to pay, then!" The controller of a large photographic business remarked the other day that he makes it a rule never to charge in such instances. Is this practice usual?

After play for the President's prize of the London Chemists' Golfing Society at Crews Hill, Hertfordshire, on June 24, four members—Messrs. Mowat, Duncan, MacDonald, and Main (to mention them in order of seniority)—drifted into a four-ball match without any pre-arrangement. After a time they discovered that they had each been formerly either master or apprentice at 176 High Street, Elgin. The senior of the four had been the first apprentice to serve there; the next in years had been proprietor for some time; the third had served his apprenticeship to the second; and the fourth had recently disposed of the business.

Edinburgh.

Several local tradesmen have been fined for failing to close their shops at the required hour.

A licence to sell a fly-mixture for sheep at 36 Constitution Street, Leith, has been applied for by the Scottish Farm and Poultry Produce Federation, Ltd.

Contending that portrait photography was a profession within the meaning of the Finance Act, a photographer named Croke appealed on June 29 against a decision of the Income-Tax Commissioners. The Court of Session, however, held that photography is a business, and refused the appeal.

In Edinburgh Sheriff Court, on June 25, Nicholas France, an American sailor, appeared on an indictment charging him with culpable homicide. The case arose out of the death of the late Mr. W. B. Cowie, Ph.C. (*C. & D.*, May 1, p. 78). The deceased's son, Mr. W. A. B. Cowie, stated in evidence that on the evening of April 26 an American sailor was in the recess behind the outside door of his father's premises in Clyde Street. His father spoke to the sailor, who was preparing to leave, when the accused appeared. The man brandished his fists, and there was the sound of a blow. On looking round witness saw that Mr. Cowie was leaning against the wall and seemed to be dazed. Accused came down the steps towards Mr. Cowie, but witness caught him by the arm. The other sailor, however, put his arm round witness's neck, forcing him to release his grip. The accused then struck Mr. Cowie another blow. Medical evidence was given to the effect that Mr. Cowie suffered from an advanced aneurism of the aorta. Professor Harvey Littlejohn expressed the view that Mr. Cowie was on the brink of death: he might have died at any moment, or he might have lived a month or two. In reply to the Judge, the Professor said he thought that the whole circumstances of the assault were the cause of Mr. Cowie's death. The jury found the charge of homicide not proved, but found the accused guilty of assault. The sheriff pointed out that the assault was committed upon an inoffensive citizen by the accused when he was in a state of drunkenness, but that was no excuse whatever. He would, however, take into account that the accused had been two months in prison, and pass sentence of six months' imprisonment, to run from the date of apprehension.

Glasgow.

The Scottish Chemists' Bowling Association held the annual competition for the Ayrton & Saunders' trophy on Titwood Bowling Green, Pollokshields, on June 23. The following are the skips and scores:

J. Nesbit, Glasgow, 40; C. J. Stuart, Paisley, 14.
G. McDonald, Glasgow, 37; G. Davie, Forfarshire, 13.
A. W. Ritchie, Forfarshire, 26; W. D. Paterson, Glasgow, 7.
G. S. Kitchin, Glasgow, 29; C. B. Lee, Glasgow, 13.
Geo. Jarvie, Dumbartonshire, 30; G. Geddes, Leith, 14.
J. W. Bennie, Stirlingshire, 30; J. Bain, Stirlingshire, 12.
D. Baillie, Lanarkshire, 23; A. McLennan, Glasgow, 15.
Jas. Cochrane, Leith, 19; Mungo Wallace, Glasgow, 15.
J. Carmichael, Fifeshire, 27; A. Crawford, Greenock, 23.

The winners were the rink skipped by Mr. J. Nesbit—Messrs. W. J. Moffat, D. G. McKenzie, J. T. Simpson, and J. Nesbit. A supper and smoking concert were afterwards held, when the President, Mr. J. W. Bennie, presented the cup to the winning rink. The following office-bearers were elected for the ensuing year: *President*, Mr. G. Shiach Kitchin, Glasgow; *Vice-President*, Mr. J. R. Milne, Dundee; *Secretary and Treasurer*, Mr. J. Cochrane, 279 Easter Road, Leith. A committee representative of various districts was also appointed. A cordial invitation to hold next year's competition at Dundee was accepted.

The Profiteering Act.

Notes.

A CANDID OPINION.

SPEAKING at Cambridge recently, Mr. George Turner, O.B.E., said that he had come from a very unpleasant duty connected with the Profiteering Committee. The whole Profiteering Act was such a farce that really it was hard work to force oneself to attend meetings connected with it. They on the Profiteering Committee had seriously considered the question as to whether they should resign. They determined not to do so just yet, but to await the result of the new amending Act.

"SPECULATION IN SODA."

A firm of solicitors, writing in regard to the report of a hearing before the Complaints Tribunal of the Central Committee (*C. & D.*, June 12, p. 52), state that the Larne Salt and Alkali Co., Ltd., is in no way connected with Tinlings, Ltd., although the officials of the respective companies are acquainted, as they have offices in the same building. The letter adds: "Mr. Tinling had no authority to make the statements concerning our clients. Our clients have not entered into any contract or negotiations for the supply of soda crystals or any of their products with Mr. Tinling or Tinlings, Ltd., or anyone on their behalf. Our clients had no knowledge, until they saw the report in your paper, of the circular sent out by Tinlings, Ltd."

Appeal.

The appeal of Mr. J. F. Harrington, chemist and druggist, 15 High Street, Kensington, London, W., against a decision of the local Profiteering Committee ordering a refund of 5s. and recommending a prosecution (*C. & D.*, May 1, p. 69) was down for hearing at the sitting of the London Appeal Committee on June 18. It was postponed, however, to June 29, when Mr. Walter Frampton, barrister, appeared for Mr. Harrington, and submitted accountant's figures showing the establishment charges and other details of the business. The prescriptions in question, the charge for which amounted to 9s., had been priced on the flat-rate system. After a private discussion the chairman announced that the Committee considered that the refund ordered by the Kensington Profiteering Committee was excessive, and that a reasonable price for the appellant to have charged for the prescriptions would have been 7s. 6d. The refund was therefore reduced to 1s. 6d.

Complaint.

HAMPSTEAD.—At a recent sitting of the Profiteering Committee, Parke's Drug Stores, Ltd., were summoned to answer a complaint for selling 1 oz. of cream of tartar at a local branch for 6d. Mr. Alfred Higgs, J.P., treasurer of the Thames Valley Pharmacists' Association, appeared for the respondents. The complainant stated that on May 29 he paid 6d. for 1 oz. of cream of tartar at the shop in question, and afterwards he purchased a similar quantity at a competitive shop and was charged 3½d. He further stated that on a previous occasion he had been charged more than 6d. at Messrs. Parke's. Mr. Higgs objected to this remark of the complainant, as he was there to answer a complaint of charging 6d. for an ounce, and he considered it most irregular for the complainant to bring in other complaints against the respondents. The chairman allowed the objection. In reply to a question by Mr. Higgs, the complainant said that before the war he had paid 1½d. for 1 oz. of cream of tartar. Mr. Higgs, addressing the Committee, said that after this admission of the complainant he (the speaker) could put his case very briefly; for since cream of tartar had increased in price fourfold, 6d. was the correct charge, taking the same ratio of profit. He put in the London Chemists' Retail Price List, which gave the price at 6d. per oz., and pointed out to the Committee that the prices were so arranged in this list that none of them showed a larger ratio of profit than in 1914. A member of the Committee examined the list, and said he was quite satisfied in his mind as to the *bona fides* of it, after reading

the notes constituting the preface. Mr. Higgs said he was quite prepared to put in invoices and wholesale price-lists in support of his contention. The complaint was unanimously dismissed.

Proceedings Tabulated.

At the end of last year we gave a table of cases heard, by Committees or in court, under the Profiteering Act (*C. & D.*, 1919, p. 1494). The subjoined list continues the record to the end of June. From it are excluded (1) cases brought against tradesmen other than chemists or limited companies trading as chemists; (2) cases withdrawn without a hearing, (3) cases awaiting the decision of other authorities, and (4) cases in which the statements of the complainants were not accepted by the Committees. The complaints now tabulated number eighty-seven, relating to a total retail value of 9l. 10s. 11½d., an average of 2s. 2.34d. each. (There were 123 complaints in the last quarter of 1919.) In twenty-eight of these cases refunds were given, amounting in all to 18s. 5d., or 9.64 per cent. of the amount in respect of which charges of profiteering were brought. Prosecutions number sixteen, of which seven resulted in fines and nine in acquittals.

The symbols adopted in the "Decision" column (Complaints table) are: D—dismissed; A—appeal; DA—dismissed on appeal; R—refund; P—prosecution; W—withdrawn; RR—refund reduced on appeal. In the corresponding column of the Prosecution table, F stands for fine; C for costs; D for dismissed; CA for costs awarded to the defendant.

Complaints.

Subject	Price	Decision	Locality	Index Folio
Allenburys' malt extract	4s. 6d.	D	London, E.C.	102
Arrowroot, 2½ oz. ..	10d.	D	Paddington	103
" " 4 oz. ..	2s.	R 3d.	"	103
Baby-powder ..	9d.	DA	Glasgow ..	227
Bandage, crepe ..	2s. 6d.	D	Croydon ..	338
Bay-salt, 1 lb. ..	4d.	D	Manchester	134
Belladonna plaster ..	10½d.	D	Gosport ..	133
Boric acid, 4 oz. ..	7d.	R 1½d.; P	Stepney ..	401
" " "less than 1 oz." ..	6½d.	R 2d.	Westminster	843
" lint, 2 oz. ..	1s. 6d.	D	Eastbourne	166
" " 1 oz. ..	4d.	W	Walthamstow	103
Camphor, ¼ oz. ..	6d.	DA	Bermondsey	101
Camphorated chalk, 1 oz. ..	5d.	DA	Bermondsey	102
" " 4 oz. ..	1s. 3d.	DA	Westminster	39
" " oil, 3½ oz. ..	2s. 4d.	W	Brixton ..	102
Cascara sagrada tablets, 100	1s. 6d.	D	Kensington	229
Castor oil, 2-oz. bottle ..	9d.	D	Glasgow ..	11
Chilblain-liniment ..	1s. 9d.	R 9½d.	Hammer-smith	259
Cod-liver oil, 6 oz. ..	2s. 3d.	R 3d.; P	Ealing ..	541
Colgate's shaving-stick ..	1s. 9d.	D	Chelsea ..	842
Comb ..	1s.	R 3d.	Bermondsey	401
Cotton-wool, 4 oz. ..	1s. 3d.	R 3d.	Chelsea ..	198
" " 4 oz. ..	1s. 4d.	D	Port Talbot	199
" " 6½ oz. ..	2s. 4d.	D	Maidstone ..	260
Cream of tartar, 1 oz. ..	5d.	DA	East Ham	39
Dispensing ..	3s.	D	Glasgow ..	11
" ..	3s. 6d.	D	Gloucester	102
" ..	1s. 8d.	D	Wallasey ..	134
" ..	6s. 6d.	D	Hale ..	199
" ..	3s. 9d.	DA	Hampstead	400
" ..	4s.	D	"	229
" ..	3s.	D	Carshalton	368
" ..	2s. 6d.	D	Weston-super-Mare	401
" ..	9s.	RR 1s. 6d.	Kensington	575
" ..	2s. 6d.	R 1s. 3d.	Westminster	575
" ..	4s. 4d.	R 1s. 7d.	Dublin ..	695
" ..	1s. 10d.	R 6d.	London, E.C.	813
Dun's castor-oil capsules	1s. 6d.	DA	Chiswick ..	612
Ess. peppermint, 1-oz. bot.	2s. 9d.	D	Torquay ..	166
" " 1-oz. ..	3s.	R 3d.; P	Willesden ..	368
Eucryl tooth-powder ..	7½d.	D	Darlington ..	786
Evonymin-and-cascara capsules	2s. 6d.	D	Glasgow ..	11
Euphine Vernade] ..	7s. 6d.	D	Westminster	260
Frame Food ..	1s. 6d.	R 3d.	Birkenhead	198
Friar's Balsam, 4-oz. bot.	5s.	RR 1s.	Westminster	70
" " 1-oz. bot. ..	1s. 2½d.	R 2d.	Northwood	338
Glauber's salt, "abt. 1½ oz." ..	4½d.	R 1½d.	Westminster	843
Headache-cachets ..	2s. 6d.	D	Hammer-smith	260

Subject	Price	Decision	Locality	Index Folio
Hydrokinone, 1 oz. ..	3s.	R 9d.	Richmond	643
Iodex	2s.	R 9d.; P	Bermondsey	166
Menthol - and-wintergreen cream	3s. 6d.	R 2s.; P	Bradford ..	478
Mercury oxide (yellow) ointment, 1½ oz.	1s.	D	Lewisham	442
Meynell's Infant Soother	2s. 3d.	D	Hirst ..	575
Nail-clippers	2s. 6d.	D	Bermondsey	785
Naphthalene, 1 lb. ..	1s. 6d.	D	Cambridge	198
Night-lights	1s. 3d.	D	Wandsworth	166
Panopepton	7s.	D	Westminster	134
Phillips's Milk of Magnesia	1s. 3d.	D	East Finchley	39
Plasters, two	2s. 6d.	R 6d.	Bradford ..	133
Potassium permang., 1 dr.	2d.	D	Southwark	612
Rami's Syrup	5s. 6d.	D	Marylebone	368
Rhubarb, 1 oz.	2s. 6d.	R 1s.; P	Kensington	442
" etc., 2 oz.	2s. 3½d.	D	Chelsea ..	199
Robinson's Barley ..	1s. 4d.	D	Bolsover ..	11
Saccharin tablets, 100 ..	1s. 7½d.	D	Wimbledon	134
" " 100	1s. 3d.	D	Manchester	260
" " 18	6d.	D	Hackney ..	199
" " 100	1s. 7½d.	D	" ..	199
" " 12	3d.	R 1d.	Ludlow ..	260
" " 100	1s. 3d.	D	Southampton	338
Savory & Moore's Food ..	2s. 8d.	D	Acton ..	70
Saxin tablets, 100	2s. 9d.	R 1s. 1d.	Eastbourne	166
Senna pods, Alex., 4 oz.	3s. 4d.	R 6d.	Hampstead	229
" " 1 oz.	7½d.	R 1½d.	Kensington	401
Shellac, 1 oz.	1s.	D	Crewe ..	612
Sodium bicarbonate, 4 oz.	3d.	W	Walthamstow	103
" " 1 oz.	1½d.	R ½d.; P	Bermondsey	259
Sponge, indiarubber ..	2s. 3d.	D	Pontycymmer	643
Sweet spirit of nitre, 3 oz.	2s.	D	East Ham	338
Tooth-brush	1s. 6d.	W	Walthamstow	103
" "	1s. 6d.	R 3d.	Westminster	843
Turpentine, ½-pt.	11d.	D	Dublin ..	813
Vaseline (white), 2½ oz.	1s. 6d.	R 4d.; P	Acton ..	842
Vaseline pomade	7½d.	D	Wallington	338
Veno's Cough Cure	1s. 6d.	R 3d.; P	Chiswick ..	260
" "	3s. 3d.	R 3d.	Stepney ..	718
Worm-powder	3d.	D	Fulham ..	71

Prosecutions.

Subject	Price	Decision	Locality	Index Folio
Boric acid, 4 oz.	7d.	D	Stepney ..	745
Clinical thermometer, 1-min.	6s.	D	Manchester	12
Cod-liver oil, 6 oz. ..	2s. 3d.	D;	Ealing ..	843
		CA3l. 3s.		
Compound liquorice-powder 1 oz.	4d.	F 5l.;	Woolwich	12
		C 5l. 5s.		
4 oz.	10½d.	D	Birmingham	135
Cotton-wool, 2 oz. ..	1s.	D	N. London	230
Ess. peppermint, 1 oz. ..	3s.	F 5l.;	Willesden	478
		C 2l. 2s.		
Fellows' Syrup	8s. 6d.	D	Tottenham	40
Glauber's salt, feathery, 8 oz.	1s.	D	Marylebone	135
Lime water, 4-oz. bottle..	1s. 6d.	F 5l.;	London, E.C.	40
		C 2l. 2s.		
Menthol-and-wintergreen cream	3s. 6d.	F 5l.;	Bradford ..	745
		C 3l. 3s.		
Pepper	—	F 2l.	Aberdare ..	40
Rhubarb, 1 oz.	2s. 6d.	F 5l.;	Kensington	696
		C 2l. 2s.		
Rogers' Nursery Hair Lotion	1s.	D	Tower Bridge	261
Sodium bicarbonate, 1 oz.	1½d.	D; C3l. 3s.	Bermondsey	813
Vaseline, 2-oz. bottle ..	1s. 6d.	F 25l.;	Marylebone	135
		C 5l. 5s.		

THE VALUE OF VITAMINES.—Colonel R. McCarrison, M.D., addressing the Research Defence Society recently on "Vitamines in their Relation to Health," said that people must be told that their money would yield a higher return in health when spent on wholemeal bread, oranges, apples, etc., rather than on sophisticated foods, pastries, and sweetmeats; and that such a simple prescription as a raw egg beaten up in milk was an infinitely better tonic than many much-advertised blood-purifiers.

Medical Benefit Regulations (Scotland), 1920.

THE National Health Insurance (Medical Benefit) Regulations (Scotland), 1920, came into operation on July 1. In previous issues (*C. & D.*, 1919, p. 1500, and 1920, p. 55) we gave abstracts of corresponding parts of the Draft Regulations for England and Wales, indicating the alterations from the Regulations then in force. We have compared the Scottish Regulations with those referred to, and below will be found the provisions which differ essentially from those of the English and Welsh schedules. Except for these differences (indicated by italics) the Regulations are practically identical so far as they apply to chemists. It should be noted that the Board referred to in the provisions is the Scottish Board of Health, which, in Scotland, acts for the Minister of Health.

PRICES OF DRUGS AND APPLIANCES.

6. For the purpose of enabling arrangements to be made for the supply of drugs and appliances the (Insurance) Committee shall, *after consultation with the Local Medical Committee, the Panel Committee, and the Pharmaceutical Committee, prepare and submit to the Board for approval* a list (in these Regulations referred to as the "Drug Tariff") of the prices on the basis of which the sums to be paid for drugs ordinarily supplied and for the prescribed appliances are to be calculated. The prices included in the Drug Tariff may be fixed prices, or may be subject to monthly or other periodical variations to be determined by reference to fluctuations in the cost of drugs and appliances. The Drug Tariff shall also include a method by which payment for drugs not mentioned in the Tariff is to be calculated. *The Drug Tariff shall have effect only so far as approved by the Board.*

ARRANGEMENTS FOR SUPPLY BY PRACTITIONERS OF DRUGS AND APPLIANCES.

10. *Where the Committee are satisfied that an insured person by reason of distance or inadequacy of means of communication will have serious difficulty in obtaining any necessary drugs or appliances from a chemist on the list of persons supplying drugs and appliances, the Committee shall require the practitioner in whose list is included the insured person to supply to that person until further notice such drugs and appliances as aforesaid (except in the case of a practitioner who is not in the habit of dispensing drugs for patients other than insured persons, and provided reasonable notice be given).*

INQUIRIES RELATING TO PERSONS SUPPLYING DRUGS OR APPLIANCES.

64. (1) For the purpose of holding an inquiry as to whether the inclusion or continuance of a person supplying drugs or appliances in the list of persons supplying drugs or appliances to insured persons is or would be prejudicial to the efficiency of the service the Board shall constitute an Inquiry Committee composed of *one advocate or enrolled law agent* in actual practice, and two other persons who, if any body has been established for the purpose by the Board, shall be selected from that body—and of whom one at least shall be a registered pharmacist.

SECOND SCHEDULE.

The second schedule, which comprises the list of appliances, agrees with that given in the England and Wales Regulations except that sublimate cotton wool is an additional entry in the Scottish schedule, while jaconet, carbolised tow, and suspensory bandages are omitted.

Insurance Committees have had their attention called, by the Scottish Board of Health, to the prohibition of "Rept. Mist." in the new Regulations. A deputy or assistant practitioner (other than a permanent assistant whose name is included in the medical list) must sign prescriptions, etc., in his own name, in addition to that of the practitioner for whom he is acting as deputy or assistant, and the Superintendent of the Checking Bureau proposes to disallow such prescriptions as are signed only with initials after July 1. The Board has also fixed the date for sending in forms for checking purposes as the eighth day of the month following that in which the forms have been dispensed. Insurance Committees have been asked, therefore, to notify chemists of this decision, and, in the event of any chemist failing to comply, a deduction will be made from the sum payable to him, the amount to be determined by the Board.

Legal Reports.

Breach of Warranty.—In the King's Bench Division, on June 24, R. White & Sons, Ltd., mineral-water manufacturers, Neate Street, London, S.E. 5, were sued by Francesco Camelo, a boy aged seven (suing through his father), for damages for breach of warranty. The defendants denied the breach and repudiated liability. The evidence showed that the lad drank from a bottle containing lemon-squash manufactured by the defendant company, and subsequently became ill. The bottle was found to contain a dead mouse. Evidence of the analysis of the contents of the bottle was given by Mr. A. W. Stokes, F.I.C., the Paddington public analyst. A very bad smell which indicated animal matter came from the bottle, he said. A microscope revealed hairs in masses which were the hairs of a mouse, very much decomposed. In fact, the contents were a solution of mouse and lemon-squash. (Laughter.) Mr. Justice Salter held, in the absence of evidence to the contrary from the defendants, that they supplied the bottle full of lemon-squash with the mouse in it. The result was a breach of warranty. He also thought the mouse could not have remained in the bottle without some lack of care in examination of the bottles before their despatch. He gave judgment for the father for the expenses he had incurred for 11*l.* 7*s.* 6*d.*, and for the boy for 15*s.*

Syphon Accounts.—At Wandsworth County Court, on June 21, the Pure Water Co., Battersea, sued Norington & Son, grocers, Cheam, for 14*l.*, the value of syphons and cases not returned. Plaintiffs stated in 1900 they started supplying defendants with syphons in cases, and continued doing so until business between the parties ended, by which time there were left in the possession of defendants 239 syphons valued at 2*s.* 6*d.* each, and twenty cases valued at 4*s.* each. A monthly account was rendered regularly, showing the balance due, and a claim for the return of the goods was made in March 1919. Mr. Lowton, for the plaintiffs, asked for an order for the return of the goods, or alternatively allow 2*s.* 6*d.* for each syphon and 4*s.* on each case. Mr. Plumridge, a book-keeper in plaintiffs' employ, said that formal application was made by letter for the return of the syphons, first in March 1919, and then in June 1919. There were still outstanding 239 syphons and twenty cases. The value of each syphon was 4*s.* 8½*d.*, and the value of each case was 10*s.* Cross-examined, witness could not say exactly what they charged customers for syphons in 1900, but he thought the same as to-day. He did not agree that in 1901 they charged 1*s.* for syphons not returned. For the defendants, Mr. Marriott claimed that the Statute of Limitations applied in this case. It came as a particular hardship to have such a claim put forward. Defendants had sent out the syphons without charging, and now they were victimised by having that claim. Plaintiffs tried to claim in *detinue*. He asked his Honour to say that each year stood on its own merits. After hearing defendants' evidence, his Honour said it was quite clear that there had been a running account since 1900, and that the statute did not apply. Judgment would be for plaintiffs for amount claimed.

Saccharin Deals.—In the King's Bench Division on June 22, Mr. Justice Rowlatt heard an action by Nicol Leon Scaliaris against E. Overberg & Co., St. Swithin's Lane, E.C., to recover an amount paid in respect of a deal in saccharin and damages for breach of contract. Plaintiff's case was that he purchased from defendants 1,200 lb. of saccharin in August 1918, the saccharin being Monsanto brand, 550 strength, f.o.b. New York, at 40 dollars a lb., less 2 per cent. Plaintiff paid defendants 13,382*l.* for the saccharin, 251*l.* freight, 362*l.* insurance, and also duty at 132*s.* a lb. The saccharin was delivered, but 400 lb. was not Monsanto brand. Plaintiff bought for resale as Monsanto brand, and in September sold to Messrs. Gaston, Williams & Wigmore, with a warranty that it was Monsanto brand. It was delivered and the buyers paid plaintiff. The buyers, however, rejected 400 lb. and claimed repayment on the ground that it was not Monsanto brand. The matter went to arbitration and the umpire held that

the delivery was not a good and valid delivery, and Gaston, Williams & Wigmore were entitled to repayment. The award was stated as a special case, and coming before Mr. Justice Bailhache, was upheld by that judge. The defence was that plaintiff had the right to examine the goods at Glasgow. Plaintiff, however, took possession at Glasgow and failed to examine before reselling. Defendants therefore contended that plaintiff had no right to complain later when the goods arrived in London. It was no answer, defendants contended, to say that it was more convenient to examine in London. Mr. Justice Rowlatt said he was of opinion the buyer was entitled to reject the goods. The contract was for Monsanto brand saccharin, and the rejected goods, though they were of Monsanto manufacture, had been sold for shipment to another firm which had put its own label on them. Goods of manufacturers' brand meant goods of the brand applied by the manufacturers, and therefore the rejected goods were not the goods bought. With regard to the question of inspection, the goods were put on board for Liverpool, but went to Glasgow, which was not a saccharin port, and the saccharin got put off its route by going to Glasgow. The question was whether the buyer in the circumstances had a reasonable opportunity for examination. His lordship thought the buyer could treat the goods as still in transit as between himself and his purchaser for this purpose till they got to London. In his judgment, plaintiff examined at the first reasonable opportunity and was entitled to reject. There would be judgment for plaintiff for an amount to be agreed between the parties, with liberty to apply to the court if no agreement was reached.—In the King's Bench Division, on June 29, Mr. Justice Darling heard an action brought by Brotherton-Ratcliffe & Co., Ltd., Winchester House, E.C., against Yankee, Ltd., High Street, Manchester, the plaintiffs claiming 4,090*l.* as damages for alleged breach of contract to take deliveries of saccharin sold to them by the plaintiffs. Mr. J. G. Trapnell, for the plaintiffs, said the contract was made in September 1918, and was for the sale by the plaintiffs to the defendants of 500 lb. of saccharin at 261*s.* per lb., deliveries in October. At this time saccharin was rather a luxury. Only 100 lb. was taken by the defendants. Plaintiffs pressed them to take further deliveries, and gave them up to January, by which time saccharin was worth only 59*s.*, instead of 261*s.* As defendants would not take delivery the goods had to be afterwards got rid of in small quantities at low prices. Defendants admitted they made the contract to purchase the saccharin from the plaintiffs, but they said it was conditional upon plaintiffs taking from them saccharin tablets, which would be manufactured by the defendants out of the saccharin purchased, up to 2,000,000 tablets per week, at 14*s.* 9*d.* per thousand. Defendants further said the manufacture of the tablets was to commence when they received from the plaintiffs the formula from which they were to be made. They alleged that they did manufacture tablets, of which the plaintiffs took 500,000, but refused to take further deliveries, and, therefore, they (defendants) were excused from any obligation to take saccharin from the plaintiffs. Defendants also counterclaimed for damages. As to the 500,000 tablets, continued counsel, the plaintiffs found they were quite useless, and accordingly rejected them. Far from pressing the plaintiffs to take deliveries, the defendants were satisfied with the plaintiffs' refusal, and said they would do their best to get rid of them. Mr. James Knight Trench, plaintiffs' manager, said the contract to take the tablets was not made until after the sale of the saccharin. When the 500,000 tablets were sent plaintiffs found them quite unsuitable, owing to their make and strength, and cancelled the order. Asked in cross-examination what were the prices of saccharin at different times, witness said they were given in the market reports of *THE CHEMIST AND DRUGGIST*, which was the recognised authority. These were produced, and witness gave the required information. Mr. H. Morris, for the defence, said the defendants, through their managing director, had been buying small quantities of saccharin of 50 lb. at a time. It was not until September 25, after apparently someone in the plaintiffs' office had noticed that the defendants were manufacturers of saccharin

tablets that they suggested defendants should manufacture these tablets for them. Mr. Knight Trench said his company were doing a big trade in saccharin tablets, selling six or seven millions per week, and they could take from them two to three millions a week. Knowing plaintiffs were going to take that quantity, defendants gave the order. Mr. James Holland, managing director of the defendant company, gave evidence, and, in cross-examination, denied that they were importers of glucose, sugar of milk, syrup, or saccharin. The statement that they imported those articles appeared on their bill-heads, but that meant they were in a position to receive inquiries for them. Giving judgment, his lordship said he was sorry for the defendants, because they appeared to have entered into the contract without quite appreciating the contract they were making. Of course, at the time they made the contract the world-war was still raging, and there was no prospect of the storm clearing away, with its consequent effect upon markets. The plaintiffs' right of action was established, and there must be judgment for them for 4,090 $\frac{1}{2}$., with costs, and the counterclaim failed.

Bottle Contract.—Mr. Justice Rowlatt, in the Commercial Court of the High Court, on June 28, heard an action by the Chemists' Manufacturing Co., Ltd., Newington Causeway, against Owens & Co., Temple Chambers, Temple Avenue, London, E.C., for damages for alleged breach of contract to deliver glass bottles. Mr. Raeburn, K.C., for the plaintiffs, said his clients were the purchasers, under a contract, of a quantity of glass bottles and glasses of a medicinal character. There were no deliveries at all under the contract, which defendants repudiated. Plaintiffs claimed for the difference between what they would have to pay for the glass bottles from someone else and the contract price, a sum of 257 $\frac{1}{2}$ l. The defence was that there was no contract at all, that there was no misunderstanding of the contract within Section 4 of the Sale of Goods Act, and that a reasonable time for delivery had not expired. As to these differences, said counsel, the contract was contained in the correspondence, and was for delivery within a reasonable time after four to six weeks from September 1919. Defendants, having repudiated the contract, could not now say that reasonable time for delivery had not expired. The hearing was continued on Tuesday. Mr. Robertson, for the defence, agreed that there could not be a contract until defendants had accepted plaintiffs' order. Nowhere in the correspondence was there any letter of acceptance. On September 22 defendants plainly refused to bind themselves, and in no subsequent letter was there anything to show that defendants accepted the terms of any order. Though defendants were doing their best to supply plaintiffs, there was no obligation on plaintiffs to accept anything they sent, and there never was any contract. Giving judgment, on July 1, his lordship held that there was no contract at all. The action failed, and must be dismissed, with costs.

Acid Tonic.—In the King's Bench Division, on June 24, the Lord Chief Justice heard an action brought by Isaac Fairman, 29 Sonning Buildings, Bethnal Green, against William Fox & Sons, Ltd., chemists, 109 Bethnal Green Road, London, N.E. Plaintiff claimed damages for the suffering he had undergone because of the alleged negligence of the defendants or their servants, and for damages for breach of warranty of description. Defendants denied the negligence and repudiated the claim for alleged breach of warranty. Plaintiff's case was that he purchased a bottle of quinine-and-iron tonic from the defendants' shop, and after taking a dose became very ill and unconscious. The liquid contained 8 $\frac{1}{2}$ per cent. of hydrochloric acid. Defendants denied that the liquid was purchased from them. Mr. Louis Green said plaintiff was a porter employed at a cinema at the Cambridge Music Hall. In June last, being run down, he called at the defendants' shop and purchased a bottle of their "quinine-and-iron tonic." Taking it to his room in the music hall he took a dose and at once felt queer and became unconscious. His friend, a man named Bracey, also had a dose and was

taken ill. The next day plaintiff and Bracey called at the defendants' shop and saw Mr. Fox. They told him about the matter, and eventually the mixture was sent for analysis. It was found to contain 8 $\frac{1}{2}$ per cent. of hydrochloric acid. Plaintiff was ill and unable to work for a long time. Plaintiff, in the witness-box, said he purchased the bottle of quinine-and-iron tonic for 6 $\frac{1}{2}$ d. It was sealed and wrapped up. Counsel: When you took it what happened?—I came over giddy and felt very queer. Then I felt so ill that I lay on the floor and became unconscious. Plaintiff said he went round next day with Bracey to the defendants' shop and saw a gentleman he thought was Mr. Fox. Bracey told how the mixture had made them both ill, and Mr. Fox asked for the bottle. He looked at it and, placing a tablet into his mouth, took a sip at the bottle. He said: "There is nothing the matter with this. If there is, it must have been put into a dirty bottle by my workpeople or they did not shake up the pail in which the stuff was made in bulk." Mr. Fox also said: "It has taken me four or five years to advertise this tonic and I do not want to lose my trade." Plaintiff added that Mr. Fox offered Bracey 13s. 6d. and said he would settle up with the plaintiff later. Plaintiff added that the contact of the acid with his throat caused an abscess which had to be lanced at the local hospital. Mr. Artemus Jones, K.C. (for the defendants): You clean brass while you are at work and use spirits of salts?—No, I always use "Bluebell" polish. Did not Mr. Fox say "This stuff never came from this shop"?—I don't recollect it. Didn't he say "It is made in three-gallon lots, and if there is anything wrong other people would have been poisoned as well as you"?—No. Didn't you say "What are you going to do?—we have lost a day's work"?—No. Didn't he say he was sorry that you had lost a day's work and offered to make up that to you?—Yes. He offered 13s. 6d. to Bracey. Albert Bracey, of Essex Street, Kingsland Road, said he sipped the bottle of tonic that Fairman purchased, "in a friendly way," and soon felt very ill. He lay down on a form for an hour, during which time the plaintiff was unconscious. Witness felt a burning in his throat. Replying to Mr. Jones, witness admitted that Mr. Fox said "This stuff did not come from this shop"; but he also said "It may have been put in a dirty bottle." Mr. Alfred Walter Stokes, public analyst, said he examined the liquid the plaintiff said he purchased from defendants, and found it contained 8 $\frac{1}{2}$ per cent. of hydrochloric acid (or spirit of salt). Mr. Charles William Norman Fox, chemist and druggist, a director of the defendant company, said that his company had been established for upwards of 110 years. When the plaintiff came to the shop with his complaint about the tonic, witness tasted the mixture and found it was extremely acid. He at once said "This could not have come from this shop." The plaintiff persisted that he bought the stuff from the shop, and witness called his assistant, who said he had sold a number of bottles and could not recollect whether he sold one to plaintiff. Witness said "It is an extraordinary thing. We only make this up in three-gallon lots, and if there is anything wrong with it we should have complaints from other people." Witness opened other bottles of the liquid and found them to be quite all right. He was sure he said nothing about a dirty bottle. It was plaintiff who suggested that the stuff might have been put into a dirty bottle, and witness said that could not be, as all bottles were properly cleaned before being filled. The Lord Chief Justice: A dirty bottle would not have 8 $\frac{1}{2}$ per cent. of hydrochloric acid in it without it being noticed?—Oh, no. Witness added that he did offer the two men 5s. each as they said they had lost a day's work and were old customers. The formula from which the tonic was made had been in his firm for years. They always made up quantities of three gallons in a stone jar, usually one lot per week, but in June 1919, as the stuff had a good sale, they were making three lots per week. He had received no other complaints about the tonic, and every bottle in the shop and store had been examined and found to be quite right. Replying to Mr. Green, witness said he failed to understand how such a quantity of hydrochloric acid could have got into the plaintiff's bottle.

He was sure it never got into the bottle while it was in the shop. The Lord Chief Justice said he thought there was no dispute that the plaintiff had purchased the bottle of fluid from the defendants' shop. Mr. Louis Green (to Mr. Fox): Is it your case that somebody must have put the acid into the bottle after it left your premises?—Certainly. Can you understand how it was that the plaintiff got the acid into his mouth if he did not get it from the bottle?—No. The Lord Chief Justice: How do the defendants suggest that the acid got into the bottle if it was not there when the bottle left the shop?—Mr. Fox: I can't understand it. Witness added that hydrochloric acid was used in the tonic to the extent of six drachms to three gallons to dissolve the quinine. Mr. Ernest R. Fox, another director of the defendant company, spoke to making the mixture up. He denied that it was possible for such a large quantity of acid to get into the tonic in that particular bottle. Mrs. Ada Cornelius, who for many years had been forewoman in the defendant's bottling and packing department, said the bottles were always carefully cleaned before being used. The Court also heard the evidence of Mr. Wm. Henry Brooks, defendants' storekeeper, and Mr. Thomas Tickle, B.Sc., F.I.C., analyst, Exeter. In his judgment, his lordship said that the only question he had to consider was one of damages. On the evidence, he was bound to hold that the plaintiff purchased the bottle of fluid with the acid in it from defendants' shop. He could not say how the acid got into the bottle. The defendant firm was 110 years old and was of high reputation, and nothing that had been said in that case should be allowed to reflect upon the way they conducted their business, for he could see various ways in which mistakes could occur in times of great pressure. Still, defendants were responsible. As to the damages, they could not be heavy as the plaintiff had not suffered much from the effects of the acid. He would give judgment for the plaintiff for 20l., and costs.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

LIGMA CHEMICAL Co., LTD. (P.C.).—Capital, 3,000l. Objects: To carry on the business of chemists, druggists, dyers, oil and colourmen, etc. The first directors are: A. Taylor, 108 Molesworth Street, Rochdale, J. E. Lightfoot, Lime Mount, Accrington. R.O.: Entwistle Road Mill, Rochdale.

JOHN MANNING, LTD. (P.C.).—Capital 2,000l. Objects: To carry on the business of pharmaceutical, analytical, manufacturing, or consulting chemists, druggists, dyers, oil and colour men, etc. The first directors are: J. S. M. Mocatta, 27 Ullett Road, Liverpool, and E. N. Heath, 41 Penny Lane, Liverpool.. R.O.: 38 Queen Street (off Albert Square), Manchester.

MATTHEWS LABORATORIES, LTD. (P.C.).—Capital, 25,000l. Objects: To take over the business of manufacturers of the nasal specific known as "Nostroline" carried on by H. E. Matthews at Waterloo Street, Clifton, and to carry on the business of manufacturing chemists, etc. The first directors are: H. E. Matthews (permanent managing director), C. H. Vernon, and A. Searle. R.O.: 30 The Mall, Clifton, Bristol.

LEVER BROTHERS, LTD.—The issue of 4,000,000 8 per cent. cumulative "A" preference shares has been fully subscribed.

PARKE'S DRUG STORES, LTD., announce the payment on June 30 of the interim dividend on ordinary shares for the half-year ended March 31, at the rate of 10 per cent. per annum, less income tax.

ROBERT BAILEY & SON, LTD.—The directors have decided to pay an interim dividend of 10 per cent. per annum (or 1s. per share), less income tax, on the preferred ordinary shares in the company for the half-year ended May 31.

A. BOAKE, ROBERTS & Co., LTD.—After payment of dividends on preference and 16 per cent. in all on ordinary shares, providing 4,561l. for bonus to employees and commissions, 227l. for war allowances to undemobilised members of H.M. Forces, 6,348l. for income tax, transferring 8,714l. to capital account and 15,000l. to reserve (making 40,000l.), accounts for the year ended March 31 show a credit balance of 10,191l. to be carried forward. The directors are making an issue of 50,000l. 6 per cent. (registered) debentures of 100l. each at 92, ranking in every respect *pari passu* with the 50,000l. debentures already issued. The debentures will be redeemed at par by annual drawings.

A. J. WHITE, LTD.—The net profits of the company's business for the year ended March 31 amounted to 30,529l. 8s. 10d. The directors are pleased to report that during the year the company's operations in France have been resumed, and satisfactory progress has been made in re-establishing the business. The year's trading at the head office and branches shows a gratifying increase over the figures of the preceding year, as is indicated by the increased profits reported. After bringing forward 28,251l. 10s. from last year's accounts, and paying the interim dividend No. 13 in December last, amounting to 12,000l., there remains a balance of 46,780l. 18s. 10d., out of which is recommended the payment of a final dividend of 4 per cent.—making 8 per cent. for the year—leaving a balance of 34,780l. 18s. 10d. to be carried forward to next year's accounts.

BRITISH CYANIDES Co., LTD.—The annual meeting was held on June 24 at the Cannon Street Hotel, London, E.C., Mr. C. F. Rowsell (chairman) presiding. In moving the adoption of the report and accounts, the chairman said that the gross profits for the year amounted to 69,919l., against 62,720l. in the previous year, while the manufacturing and general expenses were 42,265l., against 40,992l. in the preceding year. They were able to carry forward to the balance-sheet a balance of profit for the year, subject to the excess profits duty, if any, of 25,042l., against 20,572l., which result the board considered very satisfactory, having regard to the fact that the whole of the year was one of very great difficulty from the point of view of trade. Brief reference was made to the British Potash Company, the chairman intimating that they were still in the middle of important negotiations, which would no doubt result in a considerable change in the position of the company. Sir Arthur Duckham, K.C.B., seconded the motion, and Mr. Kenneth M. Chance (managing director) gave a review of the operations during the year. He felt confident the company would be capable of meeting any competition that came along, whether from Germany or elsewhere, so long as their efforts were not frustrated either by unfair taxation or by impossible restrictions on trade imposed by the Government. With regard to potash, they had made a great deal of progress, and not only had the output been increased, but the methods of manufacture had been greatly improved, together with the quality of the finished product. Unfortunately, the Government has taken rather too fatherly an interest in the potash industry, and its latest display of affection has taken the form of prohibiting the export of potash except under licence, while, since the Sankey decision in the Brown and Forth case, imports are absolutely unrestricted. The manufacture of potash in this country, therefore, finds itself open to attack from the natural sources of supply of Germany and France, who are free to send over as much as they like, while the company, on the other hand, cannot retaliate by taking advantage of the high prices ruling in other countries because exports are prohibited. It is a curious way of helping a new industry, is it not? said Mr. Chance, who wound up an interesting speech with the remark that he found it difficult to be optimistic now, when one of the chief sources of revenue in this country is derived from a tax which the Chancellor of the Exchequer himself has described as unjust, when money is being squandered by the Government on an appalling scale at a time when economy is the only hope, and when the extravagance of the Government is neglected in every business owing to the nature of the excess profits duty. The report and accounts were adopted.

Summer Outings.

Eastbourne Chemists Visit Mr. Hanbury.

ON June 16 the Eastbourne Pharmacists' Association held their first outing of the year. High tea was served at East Grinstead, and the party afterwards proceeded to Brockhurst, the charming residence of Mr. Frederick J. Hanbury, who, with his daughter, gave the party a hearty welcome. The Meteorological Station and Observatory were also visited, and the return journey was made through Heathfield.

Accrington Pharmacists at Windermere.

MEMBERS of the Accrington Pharmacists' Association held their annual outing on June 23, when a large party had a motor drive to the Lake District. Lunch was served at Kirkby Lonsdale, and a pleasant time was spent on the lake at Windermere. A hearty vote of thanks was extended to Mr. J. S. Snell (president), who had made all the arrangements. Mr. John Law, the doyen of Accrington chemists, who is over eighty years of age, accompanied the party.

Thames Valley Pharmacists Visit Windsor.

THE Thames Valley Pharmacists' Association held a summer outing on June 30, when a party of about sixty journeyed to Windsor by char-a-bancs and visited the Castle and other sights of the Royal borough. A meat tea was afterwards served at the White Hart Hotel. The President (Mr. F. J. Plomley, Kingston-on-Thames) presided, and in welcoming the guests referred to the efforts of Mr. Alfred Higgs, J.P., and his son Mr. Leonard Higgs to make the outing a success. After tea some of the party walked to Eton. The return journey was made via Slough, and Kingston was reached about 9 p.m. after an enjoyable day. The President provided the ladies with chocolate and the gentlemen with "smokes" for the homeward journey.

West Ham Pharmacists Visit Parke, Davis.

ABOUT fifty members of the West Ham Association, on the invitation of Parke, Davis & Co., visited the works of the firm at Hounslow on June 24. The party was conducted over the extensive laboratories, and much interest was evinced in the preparation of "Euthymol" tooth-paste and other specialities. The up-to-date appliances used in the manufacture of ointments, tablets, pills, etc., were found to be most interesting. The party was afterwards photographed and entertained to tea. Mr. Holderness, on behalf of Parke, Davis & Co., welcomed the party, and the President (Mr. E. N. Lloyd) thanked the firm for the invitation. The singing of the National Anthem brought a most enjoyable outing to a finish, the party returning by char-a-banc.

North London Pharmacists' Motor Trip.

THE annual outing of the North London Pharmaceutical Association was resumed this year, when a motor tour was arranged on June 24 to the Chiltern Hills and back by Thames Valley. One party left at 10.30 in the morning,



THE TWO PARTIES.

going out through the by-ways of Middlesex into Bucks to Chenies, where a picnic lunch was enjoyed. Afterwards the journey was resumed to Chalfont St. Giles and a visit paid to Milton's cottage, thence to Burnham Beeches, where the second party, leaving London at 1.30, joined up, and high tea was provided under the trees. The homeward journey was through Windsor, Staines, Bushey, Richmond, and Kew, a stop being made at Staines. The weather was delightful, and thanks are due to Messrs. Mumford, Bowie, Matthews, and the Secretary for the highly successful arrangements.

Hewlett's Field Day.

THE annual outing of the staff of C. J. Hewlett & Son, Ltd., Charlotte Street, London, E.C., took place on June 26, when a large party went by train to Eastbourne. The morning was spent in bathing and boating, and at 12.30 an excellent dinner was served at the Gildredge Hotel, the chair being taken by Mr. Vivian C. Hewlett, Ph.C., director. Mr. W. H. Domoné proposed the toast of "Success to Hewlett's," and Mr. Vivian Hewlett, before replying, read telegrams of good wishes he had received from Mr. John C. Hewlett and Mr. E. J. Millard, who were unable to be present. The afternoon was spent on Beachy Head, where sports and cricket were enjoyed. Tea was served at the Beachy Head Hotel. The weather throughout was fine, and it was universally agreed that the outing was most successful, thanks to the committee and secretary, Mr. A. J. Upton.

Fassett & Johnson at Eastbourne.

ON June 19 Fassett & Johnson, Ltd., resumed their annual outing, after an interval of six years, when 108 members of the staff set out for a char-a-banc drive to Eastbourne. After an enjoyable ride, Eastbourne was reached at 12.30, where dinner was ready, at which Mr. R. R. Hunting (director) presided. The toast of "The Company" was proposed by Mr. Calloway, and responded to by Mr. Hunting, who read a telegram from Mr. L. O. Johnson, expressing his regrets at not being able to be present. Mr. Arthur Smith proposed the toast of "The Chairman." The party then went for rambles to Beachy Head or along the parades and the pier, also for trips on the sea. After tea, the char-a-bancs left Eastbourne on the return journey, and Clerkenwell Road was reached at 11.30 p.m. The arrangements were carried out by Miss Bangs, Miss Eatherley, Messrs. Arthur Smith, Sullivan, and Keunett (hon. secretary).

A Sail on the "Broads."

THE Great Yarmouth Pharmaceutical Association held the annual outing on June 24, and an invitation was sent to the Norwich Association to join in. Under ideal weather conditions the party assembled at Potter Heigham, where a motor-boat conveyed them to Ranworth Broad. An



AT THE BRIDGE HOTEL.

excellent meal was partaken of at the Bridge Hotel, after which Mr. Percy Robinson, President of the East Anglian Federation, on behalf of the Norwich friends, expressed thanks for the invitation to join in what had been a most enjoyable outing.

Pharmaceutical Society of Great Britain.

North British Branch.

A MEETING of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on June 23, Mr. James Jack in the chair. There were present: Messrs. Arthur, A. Currie, Fisher, Forbes, Gilmour, Glass, Guthrie, Irvine, Jack, Kitchen, McEwan, Mackenzie, McLaren, McMillan, McNab, McVittae, Meldrum, and Murray.

ELECTION OF CHAIRMAN AND VICE-CHAIRMAN.

Mr. James Jack and Mr. George Shiach Kitchen were unanimously elected chairman and vice-chairman respectively.

The chairman gave a cordial welcome to Messrs. Irvine and McLaren as new members of Executive, and also took note of the fact that Mr. Fisher had again been elected a member.

APPOINTMENT OF COMMITTEES.

The chairman and vice-chairman and Messrs. Arthur, A. Currie, W. L. Currie, Glass, Guthrie, McLaren, McNab, and Murray were appointed a General Purposes Committee to deal with business remitted by the Executive or arising between meetings of the Executive, the chairman to be convener.

The chairman and vice-chairman and Messrs. Forbes, Guthrie, and McMillan were appointed a committee for nomination of examiners to consider names submitted and report to a meeting of Executive, Mr. Guthrie to be convener.

The chairman and Messrs. Arthur, W. L. Currie, Forbes, Irvine, and McNab were appointed an Education Committee to deal with the remit as to the Scottish Education Act and other matters relating to pharmaceutical education and a degree in pharmacy, Mr. Arthur to be convener. The chairman and vice-chairman and Messrs. Forbes, McMillan, and McNab were appointed an Examinations Committee to co-operate with a committee of the Board of Examiners in any arrangements required under the abnormally large entrances for the Qualifying examination, the chairman to be convener.

The chairman and vice-chairman and Messrs. Forbes, Guthrie, and Murray were appointed a Committee for Allocation of Students and Recognition of Training Institutions, the chairman to be convener.

MAJOR EXAMINATION SYLLABUS.

There was submitted a copy of the report of the Council's Ministry of Health Committee, in which a new scheme for the Major examination was included. It was explained that under existing legislation there was no proper regulation of the practice of pharmacy elsewhere than in an open retail shop. The development and organisation of a Public Health service involved new requirements which the amended syllabus was designed to meet so that the dispensing of medicines and allied services, such as x-ray work and pathological laboratory work, might advantageously be undertaken by a person holding the Major qualification. An important question that had been raised was the position of dispensers in public institutions who at the present time held the Minor qualification. It had been suggested that the scheme might be modified so as to permit of such pharmacists taking a qualification in the extra subjects without being required to pass the Major examination.

DANGEROUS DRUGS BILL.

A discussion took place on the Dangerous Drugs Bill, in which various points requiring attention were indicated. In Clause 2, Sub-Clause (1), there was a restriction on the export of raw opium except under licence and from approved ports. A question might be raised as to whether this affected the supplying of medicine-chests for the Mercantile Marine. The points arose chiefly, however, under

Part III. of the Bill. One general objection was the apparent complete ignoring of the Pharmacy Acts and the position of the Pharmaceutical Society in its capacity as expert adviser as to what constituted dangerous drugs or poisons and as to the framing of suitable regulations for the retailing, dispensing, and compounding of such dangerous drugs or poisons. It was no new thing for the Society to be constrained to offer strenuous opposition to regulations or restrictions proposed by Government Departments which frequently involved most harassing and, from the object aimed at, futile restrictions and so-called merely mechanical safeguards. It might be necessary again to assert the fundamental principle on which all wise legislation regarding dangerous drugs must be based—namely, the education and qualification of the vendor as the only really effective means of securing public safety. Another general objection was that the Bill proposed to put it in the power of the King, by Order in Council, practically indefinitely to extend the list of substances to which all these restrictions and regulations would apply. It appeared highly necessary that the Council of the Pharmaceutical Society should have a right to be consulted before any substance is added to the list and before any scheme of licensing or any regulations under the provisions of the Bill are sanctioned. Unless this was done the statutory functions of the Council of the Society under Sections 2 and 15 of the Pharmacy Act, 1868, appeared in grave danger of being superseded, and the undesirable position would arise of two distinct authorities considering and determining what are dangerous substances giving rise to public danger and consequently requiring to be placed under statutory restrictions and regulations. Under Clause 7, Sub-Clause (1), paragraphs (a) and (b), there seemed a probability of very serious interference with the business of every retail pharmacy where preparations of drugs were constantly manufactured. Paragraph (c), relating to medical practitioners and prescriptions and dispensing, suggested the need for a definite precaution against the quite misleading idea that some absolute protection lay in the fact that a substance could only be supplied by medical prescription. A medical prescription offered no better protection than that furnished by a qualified and responsible pharmacist. It was necessary to protect the right of the public to obtain any drug for a legitimate purpose, and the right of any pharmacist to supply any drug for a legitimate purpose, without the necessity of a medical prescription, which in no sense secured any protection greater than that furnished by the restriction to duly trained and qualified pharmacists of the dispensing and supplying of medicines. Indeed, there was really less protection, because there was no means of checking whether a prescription had really been issued by a duly qualified medical practitioner. This was a point of sharp contention when the Pharmacy Act of 1868 was discussed in Parliament, and the decision in Parliament conserved the right of the public to obtain medicines, and of the pharmacist to supply medicines, without the necessity of a medical prescription. Under Clause 10, if passed, there would be power for any properly authorised person to inspect pharmacies and to demand to see the Poison Register, and that power did not exist under present legislation. Clause 14, the interpretation clause, raised certain points of difficulty. Medicinal opium was defined as raw opium which has been artificially dried. That was a new and very restricted definition. The British Pharmacopœia defined opium, presumably medicinal opium, as it is usually found in commerce—namely, the juice of the poppy capsule inspissated by spontaneous evaporation. If this new definition became law, they would be harassed quite unduly in the making of pharmaceutical preparations, such as tincture of opium, which was always made from the undried gum-opium and standardised according to the pharmacopœial process. Another difficulty was raised by the definition of raw opium as powdered opium. Would that include the powdered opium used in pharmacy as medicinal opium? There was obviously great need for a reconsideration of these definitions to prevent confusion.

After discussion, it was agreed to communicate with the Council on the lines indicated.

Sheep-dipping Orders.

THE "London Gazette" of June 25 contains an Order of the Minister of Agriculture and Fisheries under the Diseases of Animal Acts, which requires the double-dipping of sheep within areas to which the Order applies. "Double-dipping" means that in the areas referred to sheep must be dipped twice with an interval of not less than seven or more than fourteen days between the dippings, by a thorough immersion in a sheep-dip approved for sheep-scab "or purporting to be so approved." An inspector of the local authority may take samples of the dip which is being or has been used for dipping sheep, and power of entry to premises is given. One clause of the Order dealing with the "mixing of dips" is as follows:

Sheep shall not be regarded as having been efficiently dipped under this Order unless the bath in which they are dipped is composed of at least one efficient sheep-dip in the proportions at which the dip is approved by the Minister for sheep-scab. In cases where two or more approved dips are used the resulting bath must be so composed that the total volume is not more than is required for the dilution of one of the dips in the proportions in which that dip was approved by the Minister for sheep-scab.

On the same date (June 18) was issued the Sheep-scab Order, 1920, under which notice has to be given to the Police where sheep are suspected of being affected with sheep-scab. The Order contains numerous clauses, forbidding moving the affected sheep and dealing with the isolation of the animals. The places where the sheep have been kept are required to be disinfected with "carbolic acid or other suitable disinfectant." The second schedule of the Order is as follows:

Prescription for Sheep-dips approved by the Minister for Sheep-scab.

(Quantities for 100 gallons of bath.)

1. Lime and Sulphur.

Mix 18 lb. of flowers of sulphur with 9 lb. of good quicklime. Slake the lime and make into a thick paste with the sulphur. Place the mixture in a strong cloth, tie the ends, and suspend in a boiler containing 10 gals. of water, so that the water completely covers the contents of the cloth. The cloth must not touch the sides or bottom of the boiler, as otherwise the cloth may be burned and its contents escape. Boil for two hours, then remove the cloth, taking care that none of its contents escape into the water, and throw the solids away. Make up to 10 gals. again with additional water, and put the liquid into a tight drum or barrel. This quantity is sufficient when mixed with water to make 100 gals. of dipping bath.

2. Carbolic Acid and Soft Soap.

Dissolve 5 lb. of good soft soap, with gentle warming, in three quarts of liquid carbolic acid (containing not less than 97 per cent. of real tar acid). Mix the liquid with enough water to make 100 gals.

3. Tobacco and Sulphur.

Steep 35 lb. of finely-ground tobacco (offal tobacco) in 21 gals. of water for four days. Strain off the liquid, and remove the last portions of the extract by pressing the residual tobacco. Mix the whole extract, and to it add 10 lb. of flowers of sulphur. Stir the mixture well to secure an even admixture, and make up the total bulk to 100 gals. with water.

Note.—The period of immersion in these dips should not be less than half a minute.

These formulas are, so far as we have compared them, the same as those given in previous Orders, but we repeat them as being samples of the kind of dip which the Ministry of Agriculture approve.

Gazette.

Partnership Dissolved.

ALLEN, R. H., and WILLCOCKS, E., 122-124 Wells Road, Sydenham, S.E. 26, manufacturing chemists, under the style of Robert Howard Allen & Co.

Personalities.

MR. C. B. SAUNDERS, chemist and druggist, Braintree, has been elected a member of the Braintree urban district council.

MR. J. H. BATTY, chairman of A. J. Caley & Son, Ltd., mineral-water and chocolate manufacturers, Norwich, has been adopted as a candidate for the vacancy in the Parliamentary representation of South Norfolk.

MR. B. P. DAVIES, chemist and druggist, Haverfordwest, has been awarded the first prize of 3l. 3s., given by The National Cash Register Co., Ltd., for a window-display made during the recent local shopping carnival.

At the recent annual meeting of the Provincial Grand Lodge of Kent Freemasons, Mr. A. E. Hobbs, J.P., Ph.C., Tunbridge Wells, was appointed D.C., and Mr. H. Meynell, chemist and druggist, Tenterden, Assistant Standard Bearer.

MR. F. HARDY, B.A., who formerly held the position of lecturer in agricultural science at Harrison College, Barbados, leaves for that island at the end of next month to take over the duties of chemist to the Imperial Department of Agriculture.

MR. L. A. HOWSE, chemist and druggist (Howse & McGeorge, chemists, Nairobi, British East Africa), is in England on a holiday. Letters may be addressed to him c/o Tozer, Kemsley & Millbourn, Ltd., 84 Fenchurch Street, London, E.C. 3.

MISS PHYLLIS FAIRWEATHER, daughter of J. Y. Fairweather, chemist and druggist, Sydenham, London, S.E., has been awarded a scholarship in singing at the Blackheath Conservatoire of Music, where she also secured the first place in her examination.

MR. EDWARD J. SHORTT, who for a number of years past has been buyer for C. R. Harker, Stag & Morgan, Ltd., is leaving that company on July 5 to associate himself with Charles L. Huisking, Ltd., 47 Lime Street, London, E.C. He will have charge of the purchasing in home markets for that company, of which he has been appointed a director.

THE names of Professor Sir John Cadman, K.C.M.G., D.Sc., University of Birmingham; Mr. W. B. Hardy, Soc.R.S., Gonville and Caius College, Cambridge; and Professor Sydney Young, D.Sc., F.R.S., Trinity College, Dublin, have been added to the list of members of the Advisory Council to the Committee of the Privy Council for Scientific and Industrial Research.

THE honorary degree of Doctor of Law was conferred at Cambridge University, on June 29, on Sir Thomas Clifford Allbutt, President of the British Medical Association; Sir Norman Moore, President of the Royal College of Physicians; Sir George Henry Makins, President of the Royal College of Surgeons; and Signor Piero Giacosa, professor of materia medica and experimental pharmacology in the University of Turin.

WOR. BRO. H. C. GOOSEMAN (Vinolia Co., Ltd.) represented the Grosvenor Lodge as Steward at the Girls' Masonic Institute Festival held at the Connaught Rooms, London, W.C., on June 23. His list of donors included the names of the Vinolia Co., Ltd., Mr. Warburton (American Drug Co.), Mr. Thomas (Meacher, Higgins & Thomas), Mr. D. P. Jones (Lewis & Burrows, Ltd.), Mr. Boddy, Mr. Stuckey, and Mr. J. F. Lintott, from whom, with a few others, Mr. Gooseman collected over 150l.

AT OXFORD, on June 23, the degree of Doctor of Science was conferred on Sir Richard Glazebrook, late Director of the National Physical Laboratory, Teddington; General Sir John Goodwin, Director-General of the Army Medical Service; and Lieutenant-General Sir Alfred Keogh, Rector of the Imperial College of Science and Technology. The Public Orator said, in presenting Sir Richard Glazebrook, that time and Latin would fail to describe the extent of his studies and researches, "quæ motuum, quæ lucis, quæ caloris esset natura"; and of Sir Alfred Keogh, that his war-service entitled him to be described as "Martis eundem et Æsculapii alumnum."

Birth.

DAVIES.—At 35 Kingsley Road, Mutley, Plymouth, on June 26, the wife of Sidney B. Davies, Ph.C., of a son.

Marriages.

GIBSON—MURRAY.—At the Douglas Hotel, Glasgow, on June 19, by the Rev. A. Chisholm, M.A., Hedley H. V. Gibson, M.P.S., Stewarton, to Lena, younger daughter of the late Mr. John Murray, Dumfries.

GOLDWIN—HANSON.—At Ferme Park Church, Crouch End, London, N. 8, on June 19, by the Rev. Charles Brown, D.D., Clement A. E. Goldwin to Mabel, elder daughter of Mr. J. J. Hanson (representing James F. Wilkinson, chemists' printer, Manchester), 80 Weston Park, Crouch End.

GORE—COOMBES.—At the Church of the Annunciation, Bryanston Square, London, W. 1, on June 26, Leslie Frank Gore, Ph.C. (The British Drug Houses, Ltd.), son of Mr. Frank Gore, Margate, to Edith, daughter of Mr. Coombes, Thayer Street, W. 1.

PATERSON—GREEN.—At Burnbank, Queen Street, Buckie, on June 9, Alexander Paterson, chemist and druggist, to Cecilia, only daughter of the late Mr. John Green, J.P., draper.

WHITE—SMITH.—At St. Lawrence's Church, Corringham, on June 23, by the Rev. C. C. Fowler, M.A., Richard Pycroft White, pharmacist, only son of Mr. W. Everard White, pharmacist, Gainsborough, to Dora Clarice, younger daughter of Mr. J. L. Smith, Corringham Grange.

Deaths.

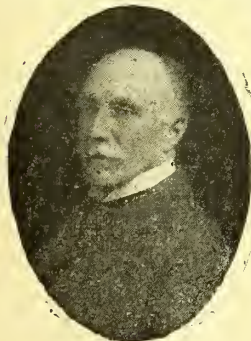
BAYER.—At Wiesdorf-Leverkusen, Germany, on June 21, Herr Friedrich Bayer, director of the Bayer Co., Ltd., Elberfeld, son of the founder of the business, aged sixty-eight.

BROOKS.—At 8 High Street North, East Ham, London, E. 6, on June 22, Helen Matilda, the beloved wife of Alderman J. Brooks, J.P., pharmacist, aged sixty-one. Interred at the City of London Cemetery.

HARMAN.—At Great Marlow, on June 19, Mr. Harry Harman, chemist and druggist, aged forty-five. Mr. Harman was the eldest son of the late Mr. Bernal Harman, chemist and druggist, to whose business he succeeded in 1906. He was a member of the local fire brigade, and was actively associated with sport and with Freemasonry.

KANEEN.—At 9 Colwyn Street, Birkenhead, on June 19, suddenly, Mr. Charles C. Kaneen, assistant with William Snow & Sons, chemists, Price Street and Laird Street, aged fifty-two.

MORSON.—At the Clock House, St. Margaret's, Ware, on June 29, Mr. Thomas Pierre Morson, chemist and druggist, chairman and managing director of Thomas Morson & Son, Ltd., manufacturing chemists, 47 Gray's Inn Road, London, W.C. 1, and Summerfield Works, Ponder's End, aged sixty-seven. Mr. Morson was the elder son of the late Mr. Thomas Morson, who retired from the business, of which he was the head, in 1905. The history of the company, which dates back to 1821, was told in detail in *THE CHEMIST AND DRUGGIST*, 1916, p. 135; it will suffice to repeat that the founder was the grandfather of Mr. T. P. Morson, and that the business has therefore remained in the same family for practically a century. Originally taken over from a Mr. Dunn, in Fleet Market (now



MR. T. P. MORSON.

Farringdon Street), it was removed in 1826 to Southampton Row, and, a few years ago, to Gray's Inn Road and Ponder's End, the manufacturing side of the business being concentrated at the Middlesex works. Mr. T. P. Morson was educated at University College School, Gower Street, W.C., and in 1868 went to Mannheim in order to complete his knowledge of German. In 1870 he studied at the Royal College of Chemistry, Oxford Street, W., and attended the lectures of Professor Franklin. He next served an apprenticeship with Ferris & Co., Bristol, and passed the Minor examination in 1874. Five years later he was taken into partnership by his father, who, on his retirement, conveyed the premises and his interest in the business to his two sons, Messrs. T. P. and A. R. Morson. For many years Mr. T. P. Morson maintained the custom of calling personally on business friends in all parts of the country. Two of his sons, Mr. T. D. Morson and Mr. L. J. Morson, have been directors of the company for some time past, and thus maintain the continuity of this historic house. The funeral is announced to take place at St. Margaret's Church on July 3, at 11.30. A train leaves Liverpool Street Station at 10.5. The offices and works of the company will be closed on that day.

MARCH.—On June 22, suddenly, Mr. Leonard Frederick March, chemist and druggist, eldest son of Mr. Frederick March, chemist and druggist, Torquay, aged twenty-six. Much sympathy is felt for Mr. Frederick March in the loss of his son, whose death was the result of a motoring accident. He was about to be taken into partnership by his father, and was engaged to be married. The funeral took place at Torquay Cemetery on June 25, among the wreaths being one from the Torquay and District Pharmacists' Association. Mr. J. Taylor, Mr. H. F. Bourne, and Mr. T. W. Dunsford were present as representatives of the Association.

Wills.

MR. THOMAS MOORE BAXTER, J.P., chemist and druggist, Bourne, who died on April 10, left estate of the gross value of 10,925*l.* 12*s.* 10*d.*, with net personality 6,677*l.* 8*s.* 10*d.*

DR. RUDOLPH MESSEL, F.R.S., F.C.S., 147 Victoria Street, Westminster, until recently managing director of Spencer Chapman & Messel, chemical manufacturers, who died on April 18, left estate valued at 174,537*l.* 16*s.* 9*d.*, of which 174,234*l.* 11*s.* 11*d.* is net personality. Probate is granted to Leonard Charles Rudolph Messel, 31 Throgmorton Street, E.C., stockbroker, nephew, and Daniel Henry Theophilus Peplow, 36 Mark Lane, E.C., chemical manufacturer. He gives 5,000*l.* to the Royal Institution of Great Britain, Albemarle Street; 1,000*l.* to the Chemical Society, Burlington House; 2,000*l.* and his platinum still, "in which I carried out with W. S. Squire my experiments in connection with the decomposition of sulphuric acid," and his platinum crucible to the Society of Chemical Industry; his electric telephone by Rois to the Institute of Electrical Engineers; 100*l.* each to his friends, employés of Spencer Chapman & Messel, George Grossmith, E. C. Thompson, R. A. Wallace, Fredk. Smith, Harry Musgrave, Patrick Quinn, and David Ross; 50*l.* each to his friends and employés William Thompson and Tommy Thompson; 400*l.* for distribution among the other employés of the company; an annuity of 500*l.* to his housekeeper, Georgina Gauntlett, for life, with remainder to her daughter, Winifred Alexandra Gauntlett; such of his scientific books as they may select to the directors of Spencer Chapman & Messel. The residue of the property is to be divided into five parts, four of which he leaves to the Royal Society, Burlington House, one to the Society of Chemical Industry, Broadway Chambers, Westminster, expressing a wish that the fund shall be kept separate from the funds of the Society, the capital to be kept intact and the whole of the income expended in the furtherance of scientific research, and other scientific objects, and no part thereof to be applied for charitable objects, as the granting of pensions and the like.

Trade Notes.

SINGLETON'S EYE OINTMENT.—The retail price of this old-established proprietary is to be 2s. 9d. after July 1.

SOX INSECTICIDE is the subject of the advertisement of Hawker & Bolwood, Ltd., 50 Mark Lane, London, E.C. 3. Some interesting opinions are given as to value of Sox.

KROVAH HEALTH-SALT.—The word "Kkovah" in the advertisement last week of Sutcliffe & Bingham, Ltd., was mis-spelled in one of the three places in which it occurred.

VITAFER CHOCOLATE.—The retail prices of this product of Southall Bros. & Barclay, Ltd., are 8d. and 1s. 4d., not those given in the company's advertisement in the Special Issue.

"LIQUID ICE," an external remedy for headache, fevers, rheumatism, etc., is being advertised extensively. Particulars of the prices and trade terms are given in the advertisement of Liquid Ice Co., Ltd., 100 Jermyn Street, London, S.W. 1.

GREENWICH LEMONADE.—The Greenwich Lemonade Co., 11 John Penn Street, London, S.E. 13, are making a bonus offer of the G.O. Lemonade in their advertisement. The firm will send two window posters (6 in. by 15 in.) to any chemist who sends a postcard request. The advertisement mentions a record sale of 100% worth of G.O. Lemonade in one pharmacy.

SILKODONO is a new hair-preparation advertised in this issue by the Silks Toilet Co., Red Lion Street, Holborn, London, W.C. 1. As will be seen from the announcement, there are special terms to chemists who order before July 31, the object being to encourage chemists to have stock on hand to meet the demand which is to follow an advertising campaign in the daily Press. Showcards are also offered.

MICROSCOPICAL PREPARATIONS.—Flatters & Garnett, Ltd., 309 Oxford Road, Manchester, have published a new catalogue of microscopical preparations. This is Catalogue "A," and covers zoological and botanical material, with a special series of slides required by students for the Qualifying examination of the Pharmaceutical Society of Great Britain. There are many other interesting series, the list being the most complete and useful of its kind.

LECTONA.—Lecithin, Ltd., 263 High Holborn, London, W.C. 1, send us a sample of Lectona, a tonic food which contains a definite proportion of lecithin. The food embodies the results of the latest researches on lecithins and vitamins, these tonic principles being present in a form in which they are completely assimilable. Lectona is a pleasant-tasting granular powder employed in teaspoonful doses after meals. The protected retail prices are 3s. and 5s. 6d.

HERB-BEER TABLETS.—C. R. Harker, Stagg & Morgan, Ltd., manufacturing chemists, Devon Wharf, Emmott Street, Mile End, London, E. 1, send us a tin of their Tonic Herb-beer tablets, a useful novelty in the season when beverages are in special demand. The tablets, of a brown colour, are compressed, and when one of them is placed in a tumbler of water disintegration of the tablet takes place, a beverage being produced which has a striking resemblance to a glass of beer. The colour and foam are there, but not the alcohol. The tablets are sent out in tins of twenty-five, and showcards are supplied for the purpose of assisting the sales.

B.M.A. EXHIBITION.—In connection with the annual meeting of the British Medical Association at Cambridge this week there was an exhibition of pharmaceutical products. Among these, the exhibit of fine chemicals and pharmaceutical products manufactured by Burroughs Wellcome & Co. maintained the high standard with which this firm is associated. The fine chemicals included "Wellcome" brand bismuth carbonate and "Wellcome" brand sodium salicylate. The extreme lightness and uniform bulk of the bismuth salt was demonstrated by a series of tubes containing the same weight of bismuth carbonate of various brands. Another series of tubes

displayed salicylates of different makes, both in substance and in solution, revealing the pre-eminence of the "Wellcome" brand product, the flakes of which are bright and uncaked and produce a bright, clean, water-white solution which does not require filtering. The other exhibits included the "Kepler" malt products, "Wellcome" brand toilet lanoline, "Kharsivan" and "Neokharsivan."

CINEMA TOILET PREPARATIONS.—The Cinema Soap Co., Ltd., 22 Finsbury Park Road, London, N. 4, make an offer in their advertisement to supply carriage paid for three guineas 2 doz. boxes each of Cinema crushed rose face-powder and Cinema dentifrice, and to include a free bonus gift of 2 doz. each of a smaller size of the face-powder and dentifrice, a supply of cinema "stars" photographs, and 500 copies of the "Picture Show." We have inspected samples of the products referred to. The face-powder and dentifrice are packed in square, gold-covered boxes, with a photograph on the lid of a cinema "star," no lettering or advertisement being shown on the case. The picture postcards are of the photographic variety and are in colours. The "Picture Show" is a weekly paper which circulates among those who patronise cinematograph theatres, the idea of supplying these to chemists being to place the paper on the counter for free distribution. Included in the "Picture Show" are advertisements of the Cinema products, and the chemist might also enclose some of his own advertising matter.

THE SCIENTIFIC AND INDUSTRIAL BULLETIN.—Some weeks ago (*C. & D.*, May 8, p. 58) reference was made to the fact that the publication of this useful volume, by Roure Bertrand Fils, essential-oil distillers, Grasse, had been resumed. Number 1 of Series No. 4 has now been issued, in which it is announced, in a short historical note, that the firm this year completes its centenary. The scientific section of the book includes the results of various researches into essential oils, and the first part of a revised table of physical constants and characteristics of the principal constituents of essential oils. The table commences with alcohols of the terpene series, and should be valuable in the laboratory. The second section is an industrial review, which gives a concise account of present economic conditions, together with much useful information in regard to stocks, crops, and future prospects. A bibliography of recent publications occupies the beginning of Part III., and under a general heading are grouped papers referring to researches on oils and their active principles and the synthesis of aromatic substances, among which is included a reference to the preparation of synthetic thymol.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

R/306. E.D. magic depilatory	I/216. Hilston's foot-rot cure
H/306. Vienna food	B/226. Bishop eau de Cologne
B/306. Windsor's patent vaporiser	E/17. Jean's dyspeptic
	K/296. Rodiant
B/306. Baker's nasal douche	P/306. Lane's catarrh cure

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Albert's remedy for rheumatism, BB/286	Metagol, G/104
Atophan substitute, R/296	Pheninol, O/295
Cholesterol, A/296	Phenazone, G/144
Counter cases, G/175	Phenoquin, B/214
Creme Simon, SC/36 and C/255	Phormoids, BL/255
Cutter's vaccines, AS/255	Pine wool, B/63
Eau de Brighton, E/226	Poison bottles, P/175
Holdroyd's gravel pills, C/125	Post's C.B.Q. tablets, M/205
Honey, C/103	Powder puffs, T/144
Houbigant's perfumery, B/313	"Prefectum" tooth-brushes, H/64
Icy-hot vacuum bottle, H/266	Procter's pastilles, M/26
Jaynes' liniment, M/234	Pumiline preparations, B/144
Jenner's cough linctus, H/244	"Pyozone" catarrh cure, M/243
"Jodelite" wood preservative, A/315	Williams' shaving-sticks, BL/255
"John Bull" cash tills, B/274	Xylose, A/296
Lactic oats, A/236	

Observations and Reflections.

By Xrayser II.

The Annual Special Issue

in itself provides more than enough interesting matter for one week's "Observations and Reflections," and being upon holiday I shall confine my remarks upon it almost entirely to what may be called its more festive features. A tribute must, however, first be paid to its general character and get-up. Your pride in it is fully justified, whether regard be had to its advertisements and the "business" portion of its literary matter, or to those special articles and their illustrations to which I have just alluded. The statistics you supply of "the material side of the production" are not, remarkable as they are, so eloquent of the labour and ability that have been expended upon it as the product itself. One has to say of it as was said of Cleopatra—it "beggars all description," and no single pen could do justice to its various attractions. Your readers will, I doubt not, be warm in their praises; for myself, I must speak only of such of its contents as make the most direct appeal to me.

Liverpool and its Pharmacists

naturally occupy a large space in it. Many years have gone by since I visited the city once so familiar to me, and it is clear that I should now scarcely know it for the same place. Of the many pharmacists there with whom I was well acquainted few, alas! remain. Several of the pharmacies you picture I must have known, but the names over the windows are different, or are there only for "old sakes' sake" and no longer refer to the actual proprietors. Of the pharmacists themselves whose portraits you give, only two, or possibly three, were known to me. Of these Dr. Symes is the only one I should certainly have recognised and ventured to accost had I met him in the street. The officers and Committee of the Chemists' Association which you name were all more or less known to me: how many of them are left? Of those whom I had particular acquaintance with, only, I believe, Dr. Symes: certainly all but two or three are "away in der Evigkeit." These are melancholy reflections, especially when it is added that many of the men of whom I am thinking were younger than I and more useful in their place. One or two of those to whom you devote a special paragraph I knew slightly as quite young men in the later days of my association with pharmacy in Liverpool, but the "old stagers" are apparently, with very few exceptions, gone. By the way, my recollections of the Liverpool Chemists' Association's meetings do not quite tally with the statement that trade-matters were rigidly excluded at the meetings held in its early years. I remember at least one such discussion in the early 'sixties, and it was the only one in which I, a mere neophyte, took any interest. True, I was not present at many. The changes that have come over pharmacy itself both in Liverpool and elsewhere are probably even greater and more important than these changes of *personnel*. The pharmacist departs but the function remains, and the coming Conference will no doubt show that as every generation grows wiser the work of the world continues to be done with ever-increasing efficiency.

Wales

will probably occupy as large a place as Liverpool in the memory of every Conference visitor who makes the excursion of July 22, and it may be presumed that few lovers of natural scenery will be able to resist the lure of Mr. Cecil Owen's description of the route. Mr. Owen necessarily confines himself to the more obvious charms of the country and its more familiar historical associations. But the Mynydd Hirathog is not familiar; very few English tourists visit it, and the route is the more interesting because it runs through what will be to many a new country. Once it was familiar enough. It was part of the Perfedd Wlad, the Middle Country, the revolt of which under Dafydd, brother of the second Llewelyn, brought about the fierce struggle between the latter and Edward I. and the final conquest of Wales.

The Conway Valley

again is rich in historical associations at which Mr. Owen could only glance. The Roman Road through Caerhun to Aber is by no means, for the greater part of its course, in a state of "fine preservation." I have tramped it more than once for the whole of that distance, and have found it in places barely traceable. Fable has it that the road, which is still known as the Sarn Helen, was made for the wedding journey of the Princess Helen, wife of the famous Maxen Wledig. Another link with ancient Britain is to be found in the still-existing foundations of Deganwy Castle, opposite to Conway on the other side of the estuary. This was a Norman stronghold, but it stood virtually on the site of a palace of Maelgwn Gwynedd, a notable king of the sixth century, addressed in very uncomplimentary terms by the historian Gildas. Of the still older and merely legendary associations of this neighbourhood, of Math-ap-Mathonwy, of Don, of Arianrod, and Blodenwydd (Tennyson's maiden "made out of flowers"), one may read at large in the Mabinogion, now accessible in a delightful edition in the Temple Classics. Mr. Owen derives *Dyserth* from *desertum*, which is right enough, but *desertum* here does not mean a desert but an anchorite's cell or small monastery. These were usually in wild, unfrequented places, and the word survives in the sense supposed in the Irish *disart*. The Greek *oros* (mountain) came in the same way to mean a monastery in the time of the Egyptian hermits.

Your Expert Contributor

touches the spot in his article on wages in the drug-trade. The reason why assistants have been so long content with lower pay than their services are worth is that they have all hoped to be proprietors themselves some day and have regarded their work as assistants as part of their training; they have, in short, been partly paid in experience. This will probably always be the case to some extent, but never again to the same extent as in the past. The great companies have changed that by calling into existence what is virtually a permanent assistant class. We have them to thank doubly for our "present discontents." They have paid, and could afford to pay, better salaries than the private pharmacist, and have thus made it worth while for their assistants to remain assistants. Comparatively few of us can do that. The remedy, says one of your correspondents, is obvious; we must so raise prices as to enable us to pay these higher salaries. Obvious, perhaps, but not easy under the Profiteering Act. Some of the Assistants' Unions seem to me a little unreasonable in their demands and impatient in their methods. The craft is not exactly in "the melting-pot," but it is in a state of unequal equilibrium. Great changes probably await us, and we cannot all at once adjust ourselves even to such changes as we are already experiencing. The assistants are quite right in endeavouring to improve their own position, and by doing so they may help to improve ours, but there is such a possibility as killing the goose that lays the golden eggs.

Buchan's "Domestic Medicine"

was published just 150 years ago, and had for more than a century an extraordinary popularity; indeed, it is doubtful whether any book of the kind rivals it in this respect. Its author, William Buchan, M.D., was born at Ancrum in Roxburghshire, February 25, 1729. The book is said to have been written during his residence in Sheffield, but was not published till after his removal to Edinburgh, when he was about forty. Before his death, at the age of seventy-six, it had passed through nineteen editions, amounting to 80,000 copies. In 1778 Buchan settled in London, where he acquired an excellent practice, and for many years lived in Percy Street, Bedford Square, with his son, who was also a physician. He is buried in the west cloister of Westminster Abbey. I remember his famous book dimly as one of the terrors of my childhood. The motto on the title-page was "The knowledge of a disease is half its cure," a sound doctrine, but rather dangerous in a treatise the chief aim of which was to promote self-medication.

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Editorial Articles.

Revenue Raising in South Africa.

REVENUE is badly needed throughout South Africa by the provincial Administrations to meet the cost of free education which will shortly be available throughout the Union. Everybody is expected to contribute a share by increased taxation, and practically no calling escapes having to pay a licence in order to carry on a profession or business. Thus, under a new ordinance which amends the law relating to the licensing of trades, businesses, occupations or callings, the licence required to be taken out by a chemist and druggist has been raised from 7l. 10s. to 8l., and in addition 1l. on every 1,000l. or part thereof of "turnover" up to 5,000l., and 2l. on every 1,000l. or part thereof of "turnover" exceeding 5,000l. The maximum addition is 300l., this addition being a new departure. Medical men will henceforth pay 10l., and dentistry, which is a very lucrative profession in the Union, will pay 15l. Grocers are known as "dealers" in South Africa, and they will only pay 10s. per annum, but a general dealer whose turnover does not exceed 1,000l. will pay 7l. 10s. Dealers in aerated or mineral waters will have to pay 2l., and a number of trades and professions not hitherto taxed in this way will have to take out annual licences. Thus advertising agents are required to pay 2½ per cent, upon all amounts received for advertisements, the minimum being 5l. and the maximum 300l. If a man

wants to speculate in "futures" he has to pay 25*l.*, but if he habitually buys produce for resale, he is let off with 10*l.* The tax upon companies is the subject of a special ordinance, and is at the rate of 1*s.* for every 100*l.* of market value of paid-up share capital. In last week's issue (p. 201) we gave particulars of the tax on buchu and the various conditions relating to the collection and sale of the drug, from which it will be seen that the Government are keeping a keen eye on the matter. There is no prospect of again receiving cheap buchu from the Cape, as we noted recently that a considerable quantity was sold in Cape Town by tender at 10*s.* 6*d.* per lb.

Merchandise Marks.

THE report of the Merchandise Marks Committee appointed October 1919 was published this week. It will be remembered that the Committee were charged to inquire whether any amendment is necessary of the Merchandise Marks Act, whether national trade-marks should be authorised, and whether any international action may be necessary for preventing the false marking of goods. The report recommends that the Board of Trade should have power to require indications of origin to be given in the case of certain imported goods, and that attention should be directed to the question whether the goods are manufactured or sold under circumstances constituting unfair competition. Recognised national emblems should be regarded, *prima facie*, as indications of national origin. Various amendments of the Merchandise Marks Act are suggested, among these being a definition of trade-mark as meaning "a mark . . . which is upon the Register kept under the Trade Marks Act, 1905, or is by reason of user distinctive of the goods of" the proprietor. No trade-mark on the United Kingdom Register which indicates goods of a firm in this country should be allowed to be transferred in the Register to foreigners without the consent of the Registrar of Trade Marks. Place names on imported goods which are identical with names of places in the United Kingdom should be qualified with the name of the country of origin. In regard to national or other collective marks, the report states that in the absence of agreement among the bulk of the traders concerned there are grave objections to the institution of a British national or Empire mark, but this does not apply to marks adopted by groups or associations of manufacturers which are already accepted for registration in this country. Among the recommendations in regard to international action is one which seeks to prevent the improper registration of British marks abroad. It is recommended that "the first person effectively to use in any country a trade-mark which has become associated with or distinguishes his trade in that country should have a prior right to the mark, notwithstanding its local registration without his authority. Even without user, the improper registration of another person's mark, or of a colourable imitation thereof, should be annulable." The subjects dealt with in the report have attracted considerable attention in commercial circles, but whether the Government will act promptly on the lines of the recommendations remains to be seen. The present is certainly a suitable time for attacking this difficult problem.

Liability of Disinfectants to Stamp Duty.

THE Commissioners of Customs and Excise have issued a notice regarding the sale of disinfectants unstamped. The circular states: "Certain disinfectants, deodorisers and other similar preparations are being recommended as

curatives or preventatives of human ailments, whereby these articles are rendered liable to duty. Notice is accordingly given that all such preparations, unless covered by statutory exemption, must in future bear the appropriate duty stamps before being sold, exposed for sale, or delivered for sale." This does not refer to preparations which are statutorily exempt as medicinal drugs vended entire or as non-proprietary "known admitted, and approved" remedies.

Americanising Company Pharmacy.

WE are informed that Mr. Louis K. Liggett, of the United Drug Co., is again in this country, and that negotiations are being concluded at a South of England watering-place for the purchase of the Boot company pharmacy interests in this country. Meanwhile, a correspondent states that there has been an endeavour among the managers of the 627 shops of Boots, Ltd., to devise a scheme for providing the necessary capital so that the control of the Boots businesses will not pass to Americans. We believe, however, that this is too late, and that it will be announced before many days are over that the Americanisation of Boots is completed. From the United States comes the information that "the United Drug Co. now intends to form a new corporation under the laws of Massachusetts to be called Liggett's International Co., Inc., with an authorised capital of \$35,000,000 of 8 per cent. cumulative preferred stock (par \$50), \$10,000,000 class A common stock, non-voting (par \$100), and \$5,000,000 class B common stock (par \$100) having all the exclusive voting rights except defined rights of preferred stockholders. It is proposed that the United Drug Co. will sell to the new concern all its assets, etc., and shares in subsidiary companies." A further statement is that Mr. Liggett had intended building a factory in England, but found the difficulties of building and obtaining machinery too great. This caused him to turn his attention to the question of acquiring a going concern, and ended in securing an option on Boots, Ltd.

"Are you going to the Conference?"

THIS question is being asked of each other by pharmacists, with an affirmative reply in many cases. We have had an opportunity this week of interviewing some of the officials of the Local Committee of the British Pharmaceutical Conference which meets at Liverpool on July 19. An excellent programme has been drawn up in which the scientific and the social sides of the Conference are nicely balanced. It will not surprise many people who have read the guide to the excursion on July 22 (*C. & D.*, June 26, p. 177) to know that the cost to the Local Committee of that day's entertainment will exceed the two guineas which members pay for the complete set of tickets. Those who have taken motor tours this year are aware that the cost has gone up and that first-class catering is as dear as ever. The Liverpool Local Committee have made provision for a large gathering, as the present year is the first time the Conference has been held outside London since the Chester meeting of 1914. Plenty of accommodation has been reserved for visitors. There has, however, been some delay in sending in applications for tickets, and in view of the fact that the Local Committee are anxious to make the meeting a record one, it has been resolved to extend the time for purchasing tickets to July 6. The fact that the Conference is the common meeting-ground of all English-speaking pharmacists should not be forgotten, and this year an effort should be made to increase the membership, which could easily be accomplished if each member would bring the advantages offered by the Conference to the notice of another chemist. The reconstructed world of pharmacy has need of the Conference, but to obtain the necessary vitality the transfusion of new blood must be constant and copious. Mr. R. R. Bennett, the senior secretary, informs us that he has had an encouraging number of papers offered for the Scientific and Practice Sections, and we know that the President, Mr. C. A. Hill, in his address is sure to bring forward ideas of value to the whole drug-trade. For these reasons we think that this year's Conference should be of exceptional interest.

The Low Value of the Mark.

"The only reason that German manufacturers can sell in English money at from 60 per cent. to 100 per cent. above pre-war rates is on account of the benefit they have under to-day's rate of exchange which values the mark at $1\frac{1}{2}d.$ only." This is a quotation from the letter in "Nature" of a leading manufacturer of optical instruments. He states further that an offer was made recently of 11,935 prism binoculars of foreign manufacture below the price at which they can be made at the present time. If this kind of competition continues, it follows that British manufacturers will be unable to keep their factories going and that "key" industries will again be given up. We were speaking to a London manufacturer this week regarding the scientific glass-blowing industry which has been established during the war. The training of the workers has taken some years, but now the products turned out are of exceptional excellence. It is in this branch of glass-blowing that pill tubes and hand-made vials are made. A difficulty which the British maker is encountering at the present time is that German glassware is being exported from Holland, and its cheapness, owing to the fall in the mark, is inducing some large users to give up the British products in favour of the German. We have examined the imported goods and find evidence of inferior quality. The fact seems to be that the German is reduced to using up odd supplies of glass-tubing and fittings. This is not a basis for continuous trade, and when the short-sighted British purchasers turn again to home manufacturers they will find that in the meantime the British makers have given up making the particular goods. Home industry will suffer, and the position of a key industry will be weakened.

Percentage Increases in Retail Prices.

In "The Labour Gazette" for June 20 the following table of average percentage increases in retail prices as a whole since July 1914 is given:

Month (beginning of)	1915	1916	1917	1918	1919	1920
January ...	10-15	35	65	85-90	120	125
February ...	15	35	65-70	90	120	130
March ...	15-20	35-40	70	90	115	130
April ...	15-20	35-40	70-75	90-95	110	132
May ...	20	40-45	75	95-100	105	141
June ...	25	45	75-80	100	105	150
July ...	25	45-50	80	100-105	105-110	—
August ...	25	45-50	80	110	115	—
September ...	25	50	80-85	110	115	—
October ...	30	50-55	75-80	115-120	120	—
November ...	30-35	60	85	120-125	125	—
December ...	35	65	85	120	125	—

A note accompanying the table explains that "the result of this calculation (in which the same quantities and, as far as possible, the same qualities of each item are taken in 1920 as in 1914) is to show the increase in the cost of maintaining unchanged the average pre-war standard of living of the working classes (i.e., the average standard actually prevailing in working-class families before the war, irrespective of whether such standard was adequate or not)." The method by which these figures are arrived at was given in detail in the March issue of "The Labour Gazette" (p. 118). The statistics collected by the Ministry of Labour for the purposes of this inquiry extend over a period of several years, and are of considerable interest.

THE INOCULATION OF TREES.—At the recent International Entomological Conference the inoculation of trees against insect pests was suggested. Dr. R. T. Tillyard (New Zealand) mentioned that an apple-tree had been injected with copper sulphate. The tree yielded a bumper crop, although the first effects were almost fatal; and so far as he knew, no one suffered from eating the apples. Spraying, in his opinion, could only be a temporary palliative. Biologically it was unsound, but they had got to continue spraying until they found a better method. The injection of chemicals was a new process, and so far the experiments had been crude.

The Purification of Crude Cocaine.

THE separation of the various bases obtained during the process of extracting coca leaves with sodium carbonate and petroleum ether has been made the subject of an exhaustive study by Dr. L. R. de Rosemont, of the University of Geneva ("Journ. Suisse de Pharm.," April 29, 1920). He first established the solubility of the various bases in different solvents, and found that cocaine, cinnamyl-cocaine, isococaine, and isotropyl-cocaine were all easily soluble in ether, alcohol, chloroform, ligroin, and benzene. Crude cocaine is partly soluble in water, and contains about 10 to 13 per cent. of sodium carbonate and bicarbonate, in addition to chlorides and alkaline sulphates.

Dr. de Rosemont describes twelve different methods he investigated for obtaining pure cocaine, including a study of the processes described in four German patents. The process he considers best (it yields from 79 to 81 per cent. of chemically pure cocaine) is as follows: Ten grams of crude cocaine is dissolved in hot water containing 5 grams of β -naphthalene-sulphonic acid, and the solution is filtered while warm. On cooling it deposits an oily-resinous body which soon becomes a semi-crystalline mass. Ammonium carbonate is added until the solution becomes cloudy, then solution of ammonia, which produces a beautiful white precipitate. This is extracted with ether and the pure cocaine crystallises out from the ethereal solution. The β -naphthalene-sulphonic acid may also be recovered by concentrating the mother liquors and precipitating with hydrochloric acid.

Another process recommended by the author consists in dissolving 10 grams of crude cocaine in boiling water containing acetic acid. On cooling, the solution is precipitated by the addition of ammonium carbonate, which yields a resinous, yellowish precipitate, lighter than water. The solution is filtered, and solution of ammonia added in excess, the almost chemically pure cocaine which is precipitated is extracted with ether, from which it crystallises spontaneously. This method also yields 79 to 81 per cent. of chemically pure cocaine. In addition to separating the cocaine from the crude product, the author also dealt with the question of utilising the residue (i.e., the resinous precipitate first thrown down) obtained in the course of precipitating the pure alkaloid, particularly the possibility of transforming the ecgonine present in this residue into cocaine. This residue is purified by crystallisation from alcohol, and pure ecgonine is precipitated afterwards by means of carbonate of sodium. The pure ecgonine thus obtained is then dissolved in methyl alcohol, and the solution treated with anhydrous hydrochloric acid, yielding methyl-ecgonine hydrochloride; the unaltered ecgonine is then extracted with ether. Of the methyl-ecgonine thus obtained 20 grams is heated on a water bath with benzoyl chloride 20 grams, until no more hydrochloric acid is evolved. The solution is now added to cold water, whereby benzoic acid is precipitated; this is filtered out and the filtrate concentrated. The synthetic cocaine (termed cocaethylene in the German patent 47713) is then precipitated from the filtrate by the addition of solution of ammonia. By this method of treating the residue a further yield of 5 to 10 per cent. of cocaine is obtainable.

ZANZIBAR CLOVES.—The total arrivals of cloves at Zanzibar during the year 1919 amounted to 565,298 frasilas, compared with 520,790 frasilas in 1918, an increase of 44,508 frasilas. The 1918-19 crop amounted to 824,501 frasilas, of which Pemba contributed 565,229 frasilas and Zanzibar 259,272 frasilas. [Frasila=35 lb.]

HERBARIUM PRESENTED TO CAMBRIDGE UNIVERSITY.—The Master of Downing College, Cambridge (Professor Seward), has recently received from the executors of the late Rev. E. S. Marshall, Rector of West Monkton, Taunton, the whole of his valuable herbarium as a gift to the University. It comprises about twenty-three thousand sheets of British plants, contained in dust-proof oak cases.

British Pharmaceutical Conference.

GAME OF BOWLS.

A SUGGESTION has been offered that there may be some of the visitors to the Conference who may desire to participate in a game of bowls on Friday morning, July 23. It is requested that those to whom this proposal appeals will kindly communicate as soon as possible with the Hon. Assistant Local Secretary.

ISSUE OF TICKETS.

Will members of the Conference and subscribers to the Local Fund kindly note that the Local Committee has decided to issue two additional sets of tickets? The first set will include the programme from Monday evening, July 19, to Wednesday evening, July 21—i.e., they will not include the excursion to Bettws-y-Coed. The price of this set of tickets will be 1l. 1s. The second set will entitle the holders to attend the excursion to Bettws-y-Coed on Thursday, July 22, the charge being 1l. 11s. 6d. The price of the tickets covering the whole programme from Monday evening to Thursday evening still remains at 2l. 2s. per set. It has been decided to extend the time by which all applications must be received up to the first post on Tuesday, July 6. Applications should be sent to the Hon. Treasurer, Mr. Charles Huxtable, F.C.S., 34 Hanover Street, Liverpool, accompanied by remittance.

Executive Committee.

A meeting of the Executive Committee was held at 16 Bloomsbury Square, London, on June 23, the President (Mr. C. A. Hill) in the chair. There were also present: Messrs. F. Ransom and H. Finnmere (Vice-Presidents); Mr. D. Lloyd Howard (hon. treasurer); Messrs. E. T. Brewis, H. Deane, F. W. Gamble, and H. Skinner; with R. R. Bennett and C. H. Hampshire (hon. secretaries).

The President referred to the loss sustained by the Conference through the death of nine members.

Reports were submitted by the Practice Section Sub-Committee and the Sub-Committee appointed to nominate officers for 1920-1921. These reports were adopted.

LOCAL CORRESPONDING SECRETARIES.

The secretaries reported that since the last meeting of the Executive Committee the following have agreed to accept office as local corresponding secretaries:

Antcliffe, Mr. H. (Sheffield).	Lester, Mr. A. R. (Cork).
Arnfield, Mr. H. (Stockport).	Phillips, Mr. H. S. (Bolton).
Barlow, Mr. T. O. (Portsmouth and Southsea).	Phillips, Mr. H. S. (Preston).
Carr, Mr. E. C. (Nottingham).	Pidd, Mr. A. J. (Manchester).
Cripps, Mr. R. A. (Brighton and Hove).	Southerden, Mr. F. (Exeter).
Gibson, Mr. F. J. (Wolverhampton).	Stephenson, Mr. T. (Edinburgh).
Hay, Mr. F. W. (Aberdeen).	Taylor, Mr. A. L. (Bristol).
Jones, Mr. H. Humphreys (Liverpool).	Whitfield, Mr. G. (Scarborough).

NEW MEMBERS.

The following were elected:

Adams, Mr. W. (Shrewsbury).	Bennett, Mr. D. S. (Cahir-civeen).
Alder, Mr. S. F. (Liverpool).	Caine, Mr. J. C. (Birkenhead).
Arkle, Mr. C. A. (New Longton).	Carr, Mr. E. C. (Nottingham).
Arnold, Mr. F. B. (Thornton Heath).	Carrie, Mr. R. S. (Liverpool).
Axe, Mr. W. J. (Liverpool).	Casey, Mr. F. J. (Liverpool).
Bagshaw, Mr. H. (Oldham).	Chalmers, Mr. W. (London).
Banham, Mr. A. E. (Hitchin).	Chaston, Mr. E. (Hitchin).
Barnett, Mr. A. H. (Wiltshire).	Church, Mr. W. C. (Liverpool).
Barton, Mr. H. (Southport).	Cofman-Nicoresiti, Mr. Jules (London).
Bayles, Mr. H. (London).	Cohen, Mr. J. (Liverpool).
Bell, Mr. J. (Manchester).	Collinson, Mr. A. (Wallasey).
Bellamy, Mr. C. (Oxford).	Connor, Mr. J. E. (Newry).

Cripps, Mr. D. H. (Hove).	Lomax, Mr. H. (Liverpool).
Cuxson, Mr. S. G. (Perry Bar).	McCutcheon, Mr. D. (Glasgow).
Dalrymple, Mr. G. A. (Liverpool).	Mackenzie, Mr. D. G. (Glasgow).
Daniels, Mr. M. L. (Liverpool).	Marns, Mr. T. (Ealing).
Diggs, Mr. C. E. (Ranelagh).	Marris, Mr. G. W. (Runcorn).
Dixon, Mr. W. L. (London).	Messenger, Mr. A. H. (Southport).
Dodd, Miss M. C. (Wallasey).	Miller, Mr. T. (Manchester).
Drummond, Mr. J. M. (London).	Mills, Mr. A. (Leeds).
Eastwood, Mr. T. E. (Fairfield).	Mitchell, Mr. W. (Beverley).
Edis, Miss S. W. (Liverpool).	Murray, Mr. D. (Liverpool).
Eldred, Mr. C. W. (Shrewsbury).	Naylor, Mr. C. (Bolton).
Elliott, Mr. S. J. (Southport).	Newton, Mr. T. R. (Southport).
Evans, Mr. E. St. J. S. (Liverpool).	Nicholson, Mr. J. (Liverpool).
Evers, Mr. N. (London).	Nidd, Mr. J. H. (Manchester).
Fairbairn, Mr. A. (Liverpool).	Orchard, Mr. F. (Highbridge).
Fell, Mr. T. (London).	Orr, Mr. F. (Southport).
Fergusson, Mr. I. V. L. (Liverpool).	Paley, Mr. J. (Liverpool).
Ferriday, Mr. A. J. (Liverpool).	Partridge, Mr. W. F. (Liverpool).
Flenley, Mr. W. E. (Liverpool).	Peirson, Mr. H. S. (New Brighton).
Foster, Mr. H. J. (London).	Prescott, Mr. W. E. P. (Southport).
Garner, Mr. R. (Liverpool).	Price, Mr. A. S. (Birmingham).
Gee, Mr. J. W. (Southport).	Pryor-Jones, Mr. D. (Liverpool).
George, Mr. R. W. (London).	Rigg, Mr. H. (Birmingham).
Glover, Mr. J. (St. Helens).	Robbie, Miss C. Y. (Liverpool).
Govier, Mr. R. G. (Wallasey).	Roberts, Mr. D. (Liverpool).
Grant, Mr. P. (Rock Ferry).	Sheppard, Mr. W. J. (Barnstaple).
Greening, Mr. M. C. (Liverpool).	Smith, Mr. A. N. (W. Bridgford).
Haines, Mr. T. S. (London).	Sparrow, Mr. A. B. (Southsea).
Hamerton, Mr. J. (London).	Stelfox, Mr. J. A. (Birkenhead).
Hare, Mr. C. (Southport).	Stockdale, Mr. H. (Birkenhead).
Harriman, Mr. H. E. (Liverpool).	Taylor, Miss E. A. A. (Wallasey).
Harvey, Mr. M. B. (Southport).	Toy, Mr. H. G. (Derby).
Harvey, Mr. T. F. (Chingford).	Twomey, Mr. J. C. (Moreton).
Hirshberg, Mr. A. (Manchester).	Walton, Mr. W. H. (Hull).
Impey, Mr. A. O. (Hitchin).	Wells, Mr. A. O. (Dublin).
Jackson, Mr. D. (Wednesbury).	West, Mr. R. H. (Southport).
Jordan, Mr. C. J. (Exeter).	Wigglesworth, Mr. J. W. (Bolton).
Kendrew, Mr. W. H. (Southport).	Williams, Mr. J. (Manchester).
Lang, Mr. J. West (Stockport).	Wilson, Miss M. (Wallasey).
Lawrence, Mr. A. (Liverpool).	Winstanley, Mr. T. H. (Wigan).
Lester, Mr. A. R. (Cork).	Wright, Mr. J. C. (Southport).
Lizius, Mr. J. L. (London).	Wynne, Mr. W. A. (Rock Ferry).
Lloyd, Mr. H. O. (Birmingham).	

Local Committee.

The following is a complete list:

CHAIRMAN.

Mr. William P. Evans, J.P., 56 Hanover Street, Liverpool.

VICE-CHAIRMEN.

Dr. C. Symes, Ph.D., 14 Hardman Street, Liverpool.

Mr. D. H. Evans, 148 Lodge Lane, Liverpool.

HON. TREASURER.

Mr. C. Huxtable, F.C.S., 34 Hanover Street, Liverpool.

HON. SECRETARY.

Mr. H. Humphreys Jones, A.I.C., F.C.S., 2 Blackburne Place, Liverpool.

HON. ASSISTANT SECRETARY.

Mr. W. J. Williams, A.C.I.S., 102 Carisbrooke Road, Walton, Liverpool.

Mrs. A. W. Ashcroft, 112 Aigburth Road, Liverpool.
 Mrs. J. Bain, 43 Prince Alfred Road, Wavertree, Liverpool.
 Mrs. A. J. Ferriday, 137 County Road, Liverpool.
 Miss Mabel Dand, 7 Russian Drive, Stoneycroft, Liverpool.
 Miss D. P. Dann, 180 Queen's Drive, Wavertree, Liverpool.
 Miss S. W. Edis, 126 Shiel Road, Newsham Park, Liverpool.
 Miss L. B. Gardner, East Dispensary, Richmond Row, Liverpool.
 Miss E. Ridgeway, "Wood Bank," Station Road, Roby, Liverpool.
 Miss C. H. Rimmer, 60 Cemetery Road, Southport.
 Miss C. Y. Robbie, 56 Canning Street, Liverpool.
 Miss Gwladys M. Williams, 6 Denman Drive, Newsham Park, Liverpool.
 Mr. A. C. Abraham, F.I.C., F.C.S., 87 Bold Street, Liverpool.
 Mr. T. F. Abraham, 87 Bold Street, Liverpool.
 Mr. A. W. Ashcroft, 112 Aigburth Road, Liverpool.
 Mr. John Bain, 4 The Quadrant, Lime Street, Liverpool.
 Mr. Harold Barton, 111 Lord Street, Southport.
 Mr. E. B. Brigham, 60 St. John's Avenue South, Bridlington.
 Mr. G. H. Burroughs, 58 Hanover Street, Liverpool.
 Mr. J. Cleworth, 56 Ducie Street, Greenheys, Manchester.
 Mr. W. H. Clubb, 138 Smithdown Road, Liverpool.
 Mr. F. C. Cooling, 29 Christchurch Road, Oxton.
 Mr. H. O. Dutton, 2 King Street, Rock Ferry.
 Mr. A. J. Ferriday, 137 County Road, Liverpool.
 Mr. T. W. Fletcher, 74 Woodcroft Road, Smithdown Road, Liverpool.
 Mr. A. S. Furniss, 531 Prescott Road, Old Swan, Liverpool.
 Mr. R. G. Govier, 35 King Street, Egremont.
 Mr. J. L. Hirst, 53 Renshaw Street, Liverpool.
 Mr. M. S. Hughes, 203 County Road, Liverpool.
 Mr. John Jones, 6 Strand Street, Liverpool.
 Mr. William Kirkby, M.Sc., Winstor House, Heaton Moor, Stockport.
 Mr. G. F. Lant, 81 Woodchurch Road, Birkenhead.
 Mr. J. McInroy, 64 Brunswick Road, Liverpool.
 Mr. S. J. D. Manson, 18 Great George's Road, Waterloo.
 Mr. C. A. Maries, 122 South Road, Waterloo.
 Mr. Prosper H. Marsden, F.C.S., Royal Infirmary, Liverpool.
 Mr. Oliver Marsh, 89 Liscard Road, Wallasey.
 Mr. Harold Nixon, 34 Hanover Street, Liverpool.
 Mr. L. M. Parry, 163 Oakfield Road, Liverpool.
 Mr. E. Prebble, 187 Kensington, Liverpool.
 Mr. John H. Robinson, 39 Tithebarn Street, Liverpool.
 Mr. W. H. Saunders, 34 Hanover Street, Liverpool.
 Mr. C. E. J. Sendall, "Crosby Lea," Warbreck Moor, Liverpool.
 Mr. J. M. Tallantyre, York Mansions, Sandringham Drive, Liverpool.
 Mr. Edwin Thompson, C.C., "Woodlands," Fulwood Park, Liverpool.
 Mr. J. G. Wallbridge, F.S.M.C., 227 Kensington, Liverpool.
 Mr. William Wellings, 4 The Quadrant, Hoylake.
 Mr. R. H. West, 25 York Road, Birkdale, Southport.
 Mr. Chas. Wherly, 128 Rake Lane, Liscard.
 Mr. T. S. Wokes, The Pharmacy, Grassendale, Liverpool.
 Mr. Harold Wyatt, 223 Stanley Road, Bootle.

MORE MONEY ASKED FOR BY MEDICAL OFFICERS.—At a meeting at Cambridge on June 26, medical officers holding public appointments requested the British Medical Association to assist them to obtain higher salaries, but added that they were not willing to "come out" in support of their claims.

SWEDISH EXPORTS RELAXED.—Export trade in benzol, terpineol, safrol, menthol, heliotropin, coumarin, musk, and other unspecified natural and artificial raw products for use in the manufacture of perfumery (not being essential vegetable oils), as well as rose and orange water, is now permitted from Sweden.

Business Changes.

MR. ARTHUR HALL, chemist and druggist, has acquired the business of Mr. J. A. J. Totten, chemist and druggist, at Worcester Park, Surrey.

MR. EVAN JONES, chemist and druggist, has taken over the business of Mr. George Moore, chemist and druggist, Clydach Vale, Rhondda Valley.

MR. NELSON BRIERLEY, chemist and druggist, has purchased the business recently carried on by E. Cottrell, Ltd., chemists, Greenfield, Yorkshire.

MR. JAMES WEIR, chemist and druggist, has purchased the business of Mr. A. Lewis Thompson, chemist and druggist, Snargate Street, Dover, who established himself there upwards of thirty years ago.

E. R. BAINES & Co., chemists, have purchased the business of the late Mr. G. J. Walker, chemist and druggist, Guildhall Street, Lincoln. The pharmacy will be under the management of Mr. E. R. Baines, Ph.C.

MR. L. W. OXLEY, chemist and druggist, has acquired the business known as the Frizinghall Drug Stores, Bradford, from Mr. E. A. Cleavin, who is now representing Winox, Ltd., Richmond, Surrey, in Liverpool and Cheshire.

MR. D. E. DAVIES, chemist and druggist, has acquired the business of Mr. R. H. Richards, chemist and druggist, Dudden Hill Lane, Willesden, London, N.W. 10. The transfer was effected by the Association of Manufacturing Chemists, Ltd.

MR. A. S. GALLOWAY, chemist and druggist, Blackpool, has, through the agency of the Association of Manufacturing Chemists, Ltd., purchased the business of Mr. C. Harrison, chemist and druggist, High Street, Putney, London, S.W. 15.

New Books.

Blackham, R. J., C.B., D.S.O., M.D. *The Care of Children: Practical Hints for Mothers and Nurses at Home and Abroad.* Third edition. 7½ in. x 4½ in. Pp. 102. 1s. 6d. (The Scientific Press, Ltd., 28 and 29 Southampton Street, Strand, London, W.C.) [A good deal of interest is being taken in this subject, stimulated, so far as chemists' assistants are concerned, by the offer of prizes by the proprietors of Glaxo, and Colonel Blackham's book can be recommended for those in search of concise and accurate information on the rearing of children.]

Jennings, A. S. *The Painters' Pocket Book: A Practical Reference Guide to Everyday Work.* Fourth edition. 6½ in. x 3¼ in. Pp. 244. 4s. (Thomas Tofts, 93-94 Chancery Lane, London, W.C.) [Contains a good many practical articles on preparing paint for decoration purposes, the employment of decorators' materials, and methods of remedying defects. A good many people will be interested in the table of painters' and decorators' prices, and we question whether, in the present abnormal times, it is possible to keep these up to date. There is a dictionary of terms used in painting, and numerous illustrations of alphabets and designs required by painters.]

Maiden, J. H. *A Critical Revision of Genus Eucalyptus.* 12 in. by 9½ in. Vol. iv., Parts 7, 8, 9, 10. 2s. 6d. each part. (Gullick, Government Printer, Sydney, N.S.W.) [These four numbers bring the complete work up to Part XL. The Eucalypti dealt with are: *E. clavigera*, *E. aspera*, *E. grandifolia*, *E. papuana*, *E. tessellaris*, *E. Spenceriana*, *E. Cliftoniana*, *E. setosa*, *E. ferruginea*, *E. Moorei*, *E. dumosa*, *E. torquata*, *E. amygdalina*, *E. radiata*, *E. numerosa*, *E. nitida*, *E. Torelliana*, *E. corymbosa*, *E. intermedia*, *E. patellaris*, *E. celsastroides*, *E. gracilis*, *E. transcontinentalis*, *E. longicornis*, *E. oleosa*, *E. Flocktonia*, *E. virgata*, *E. oreades*, *E. obtusiflora*, *E. fraxinoides*, *E. terminalis*, *E. dichromophloia*, *E. pyrophora*, *E. lavopinea*, *E. ligustrina*, *E. stricta*, *E. grandis*.]

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

TELEPHONE CHARGES.

A Committee of the House of Commons, consisting of Mr. Archdale, Captain Sir H. Bann, Mr. Briant, Sir H. Brittain, Mr. Carr, Sir E. Coates, Mr. Purchase, Mr. J. Robertson, and Mr. Tyson Wilson, was appointed on June 21 to examine the present charges made to the public for the use of the telephone service and to report in what respects these charges require revision in order to place the service on a remunerative basis.

EARLY CLOSING OF SHOPS.

Mr. Bonar Law, on June 23, stated in the House of Commons that the questions of employment in shops and early closing of shops would be dealt with by the Government, which is considering the introduction of a Bill to extend the existing regulations as to closing for a short time.

The Home Secretary, on June 24, in reply to a question, said there is no legal objection to local authorities issuing orders for seven o'clock closing if it is really desired in the district.

POTASH DISTRIBUTION.

The President of the Board of Trade, on June 28, in reply to a question by Sir Richard Cooper, stated that, out of the quantities of muriate of potash received under the German potash contract, 4,000 tons of 80 per cent. muriate and 2,500 tons of 90-95 per cent. were exported from Hamburg to the United States with the consent of the Potash Distribution Committee, the prices fixed by the Committee being 17*l.* 10*s.* and 19*l.* 10*s.* per ton respectively, f.o.b. Hamburg. There were no shipments from the United Kingdom or Rotterdam. No sulphate of potash received under the contract has been exported to the United States of America.

INCREASE OF RENT (RESTRICTIONS) BILL.

This Bill was read a second time in the House of Lords on June 24. The Marquis of Salisbury referred to the provisions in regard to the rent of business premises, and said that it is quite right to prevent a tenant of business premises from being charged an extortionate rent, but it is not right that he should be treated on the same footing as the tenant of a dwelling-house. Viscount Astor, replying for the Government, said the clause referred to met a real grievance, and ought to remain in the Bill, perhaps with a slight amendment. On the report stage an amendment of clause 13 (dealing with business premises) was carried, by which an increase of 60 per cent. can be made on the standard rent, in place of 40 per cent. in the Bill.

ADVERTISEMENTS REGULATION BILL.

This Bill, which was introduced to the House of Lords by Lord Balfour of Burleigh, proposes to extend the power of local authorities over advertisements on lands and buildings. Clause 4 gives power to deal with advertisements of a repulsive or demoralising character. Clause 5 extends the scope of the Indecent Advertisement Act, 1889, and makes the person for whose profit or advantage an indecent advertisement was posted liable to prosecution, unless the person proves that the advertisement was exhibited without his authority. The second reading took place on June 24. Lord Balfour of Burleigh, who moved the second reading, referred to what he considered objectionable advertisements in public places which, being on private property, are at present uncontrolled. The Earl of Onslow, for the Government, said the powers under the Bill are rather wide, and he suggested that Lord Balfour should confer with the Home Office in regard to drafting a Bill which the Government could accept and to which facilities would be given to pass it into law. Lord Balfour agreed to this course.

PATENT LICENCES.

The President of the Board of Trade on June 21 stated in the House of Commons that a British company which was at the outbreak of war a licensee of a German company under a German patent, has the right under Article 310 of the Treaty of Peace to demand from the German company, within six months after the coming into force of the Treaty, the grant of a new licence, the conditions of which, in default of agreement between the parties, shall be fixed by the mixed arbitral tribunal. It is not yet decided at what place or places that tribunal will sit; it is being established and, it is hoped, will shortly be fully constituted. Under the Treaty the tribunal will lay down its own rules of procedure.

EMPLOYMENT OF CHILDREN.

Lieut.-Colonel Pinkham, on June 21, asked the President of the Board of Education what is the position of those education authorities who have submitted their by-laws governing the employment of children under the Employment of Children Act, 1903, and Section 13 of the Education Act, 1918, to the Home Office for approval, and are still waiting official sanction to the said by-laws; what is the position of those authorities who have made by-laws beyond the scope of the requirements of the Employment of Children Act, 1903, and Section 13 of the Education Act, 1918, should they proceed to put these by-laws into operation; whether some authorities have abolished all Sunday labour and evening as well as morning labour; and, if so, whether, in view of the provisions of the Acts concerned, he will say what action he proposes to take.

Mr. Shortt replied for the Home Secretary that Section 13 of the Education Act, 1918, which amends the Employment of Children Act, 1903, came into force on April 1, and it is the duty of Local Education Authorities to enforce its provisions. When, however, a Local Education Authority is proposing a by-law to give some exemption from the provisions of the Section, he thought they were justified, pending the settlement and confirmation of the by-law, in provisionally allowing employment to continue within the limits of the proposed exemption. With regard to the second part of the question, these by-laws have no legal effect until they are confirmed by the Secretary of State, and so far as he is aware no by-laws have been confirmed which are outside the scope of the Acts. In reply to the third part of the question, the law officers advise that by-laws absolutely prohibiting all employment on Sunday or all employment on any week-day are *ultra vires*, and since this opinion was received no such by-laws have been confirmed.

Things Worth Knowing.

By "Hugo."

Shop-rounds, like windows, should be systematically cleaned.

In all business matters strive first after accuracy; then gain speed.

Much loss is caused annually by wastage of small things. Be careful in details if you would succeed.

Avoid giving information regarding business and profits to friends not in the trade, or you will eventually be handicapped in your dealings with them.

Never fail to price your scripts in your book at once. Variations in prices shake your customers' confidence more than you realise.

Take a good holiday when most convenient. You will go back to business with new ideas as well as new vitality.

Keep cheery, but don't act the comedian in business. Remember that the public look to you as rendering professional services peculiar to your calling.

ALDERMAN EDWARD PRICE WYNNE, J.P., chemist, 7 Pier Street, Aberystwyth, who died on March 16, left estate of the gross value of 2,280*l.* 12*s.* 7*d.*, with net personalty 800*l.* 19*s.* 7*d.*

Association Affairs.

C.D.A.—The nineteenth annual report of the Chemists' Defence Association, Ltd., to be presented at the annual meeting of the Association on July 15, announces that during the year 381 additional members have joined, making a total of 5,628 in April 1920. Claims for damages were slightly less numerous than in some previous years, but the individual amounts were heavy. The following are examples of those cases dealt with: (1) Glycerin and carbolic acid instead of glycerin; (2) overdose of opium preparation; (3) overdose of hypodermic solution of cocaine; (4) copaiba capsules for castor-oil capsules; (5) silver nitrate eye-lotion for argyrol. The income and expenditure account shows an income from subscriptions (including veterinary section) of 3,518*l.* 1*s.* 3*d.* Dividends and interest amounted to 411*l.* 7*s.* 7*d.*, and there is a balance of 1,483*l.* 1*s.* 6*d.*

Dublin.—A committee meeting of the Dublin Retail Drug-trade Association was held on June 23, Mr. D. M. Watson (President) in the chair. The following were also present: Messrs. R. J. Savage, G. A. McLean Lee, R. E. Campbell, Robert Mellon, W. F. Ellis, Dr. J. A. Walsh, and Mr. R. J. Kidney (secretary). Correspondence from the following was received and dealt with: John Timpson & Co., Ltd., London, and E. A. Whelan, Rathkeale.

Exeter.—The annual meeting of the Exeter Pharmacists' Association was held on June 28. Mr. J. W. Lake presided at the outset. A vote of condolence with the relatives of the late Mr. L. F. March (Torquay) was passed. The Hon. Secretary (Mr. A. Milton) in his report called attention to the considerable increase in the number of members, which resulted from the decision of the Association to admit to membership all qualified chemists in the city and district. Mr. J. Harris (treasurer) reported a balance in hand of 4*l.* 6*s.* 2*d.* The reports were adopted. Mr. D. Reid was elected *Chairman* and also the Assistant Delegate to the Devon Pharmaceutical Committee; Mr. A. Milton (hon. secretary) and Mr. J. Harris (hon. treasurer) were re-elected. It was reported that action had been taken with regard to the sale under price of "Sorbo" sponges by an Exeter draper, and that steps were being taken with regard to a similar complaint from Paignton. The resignation of Mr. F. Sloman, on account of continued ill-health which will necessitate his leaving the city, was accepted with regret.

General Workers.—The monthly meeting of the Pharmacists' Section (Liverpool) of the National Warehouse and General Workers' Union was held on June 22, and was addressed by Mr. J. Gilmour, the organising secretary. A resolution approving of the Newcastle programme was carried unanimously. The reported action of the multiple companies in selling their concerns to foreign combines was strongly criticised by the members. —An inaugural meeting of the East Lancashire Branch (Pharmacists' Section) of the National Warehouse and General Workers' Union was held at Accrington on June 24, when officials were elected. Mr. Gilmour (organiser of the Union) explained the Union's programme and outlined the value of organisation.

Halifax.—The Halifax Chemists' Association met on June 21, the President (Mr. Lewis Chambers) in the chair. A report of the North-Eastern Federation meeting was submitted by Mr. P. W. Swire, who also reported Insurance items of interest, at the conclusion of which he expressed a desire that his request to relinquish the office of secretary to the Pharmaceutical Committee be granted. The President, on accepting his resignation, regretted that Mr. Swire was compelled to relinquish office. Mr. A. Taylor was then unanimously elected secretary. The recent addition to the Proprietary Articles Trade Association of various proprietary articles received the approval of the meeting, and it was resolved that the Halifax Chemists' Association, in view of the campaign against unremunerative patent medicines launched by

them in the summer of 1919, had reason to congratulate themselves on the fact that the efforts made by them had contributed to the attainment of increased profits.

Lancashire (N.E.).—A meeting of the North-East Lancashire Chemists' Association was held on June 17, Mr. Richard McMyn presiding. Mr. F. Law, secretary, was instructed to write G. E. Fulford, Ltd., Foster McLellan, Ltd., and J. C. Eno, Ltd., thanking them for their action in placing their proprietaries on the Proprietary Articles Trade Association list. Mr. McMyn gave a report of a conference held in Manchester with regard to the formation of a North-Western Federation of Pharmaceutical Associations under the scheme of the Local Associations Executive. A letter was read stating that as the local Insurance Committee was desirous of fixing the close of the year for December, instead of July, they proposed to extend the term of office of the Pharmaceutical Committee until December. The scheme was approved.

P.A.T.A.—The annual report of the Proprietary Articles Trade Association, to be presented at the annual meeting of the Association on July 15, reports considerable progress during 1919, and states that a large addition has been made to the list of protected articles. The Manufacturers' Section has received a net increase of forty-five members; the Wholesalers' Section has increased by nine; and the Retail Section has been augmented by the record number of 644 new members. The Propaganda Committee addressed twenty-eight meetings during the session 1919-20, and the Face-value Committee have been very successful in attempts at fixing face values as minimum retail prices. The chief offenders in regard to price-cutting are stated to be co-operative societies, grocers, and hairdressers. During 1919 150*l.* was expended in dealing with cases of cutting. With regard to patent-medicine stamp-duties, a meeting of the Association of Owners of Proprietary Articles decided on certain modifications of the scale of duties arrived at between the Board of Customs and a deputation representing the A.O.P.A., the P.A.T.A., and the Local Associations' Executive, and the Chancellor therefore declined to make any change in the present year's Budget. The financial statement shows that the amount received in subscriptions was 5,312*l.* 16*s.* 10*d.*, and the interest on deposits and investments amounted to 313*l.* 13*s.* 7*d.* Four per cent. Funding Loan was purchased to the value of 1,000*l.*, and the balance on December 31 amounted to 1,191*l.* 10*s.* 6*d.*

Pharmacy Students.—The School of Pharmacy Past Students Association held the first post-war general meeting at 17 Bloomsbury Square on June 22. Mr. H. Finnemore occupied the chair, and the secretary (Mr. Harry Martin) read the report of the committee. The present membership is 251, and the committee proposed the amalgamation of past and present students of the School of Pharmacy in one association. This was unanimously passed. The treasurer (Mr. W. R. Pratt) stated that a credit balance of about 17*l.* would be handed over to the new association. The affairs of the past students will be entrusted to a committee of six members, two of whom will be entitled to seats on the general executive of the association. The annual subscription to the past students' section will be 5*s.*, and it is proposed to hold a general meeting of the combined associations during the first week in October.

Walthamstow.—The first annual meeting of the Walthamstow Pharmaceutical Association was held on May 12. After Mr. A. M. Brown (the President) had given a *résumé* of the year's work, Messrs. A. M. Brown (President), G. F. Deeth (Vice-President), and J. McGlinchy (auditor) were re-elected, with Mr. W. Gray and the secretary forming the committee. Mr. W. E. Swanston, hon. secretary and treasurer, regretted that he would not be able to accept office for another year as he was leaving the district. Mr. W. Main was elected to represent the Association on the committee of the newly formed Walthamstow Chamber of Commerce. Mr. W. E. Gaze (Highams Park) has since accepted the position of hon. secretary and treasurer in place of Mr. Swanston.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Birmingham.—The annual report of the Pharmaceutical Committee, which has just been issued, states that the number of prescriptions dispensed in the area during 1919 was 953,554, and the value 26,317*l.* 8*s.* The average ingredient-price was 2.8*d.*, dispensing-fee 3.8*d.* The Committee's expenses for the year (including cost of checking) worked out at 1.38 per cent. The number of persons and firms supplying drugs and appliances on the panel on May 31, 1920, was 143 (136 dispensing), and the number of shops 192 (181 dispensing). The sum of 150*l.* 12*s.* was paid to the Pharmaceutical Society for checking.

Blackburn.—It was reported to the Insurance Committee that during the quarter ended March 31, 46,796 prescriptions were dispensed at a cost of 1,873*l.* 4*s.* 5*d.* The average cost per prescription was 9.61*d.*, and the average total cost per insured person was 8.15*d.*

Bolton.—Regarding the payment of a double dispensing fee for prescriptions marked "Urgent," it was considered at a recent meeting of the Insurance Committee that the double fee was payable on prescriptions endorsed on the back by the chemist.

Exeter.—A meeting of the Devon Pharmaceutical Committee was held recently, Mr. March presiding. The reports of the Central Checking Bureau for November, December, and January were approved. In view of the increased cost of the average prescription it was resolved that steps be taken to secure the payment of a higher proportion on account. It was also resolved that the official year should in future commence on January 1.

Gloucestershire.—At a meeting of the Insurance Committee recently, it was reported by the chairman that during 1919 the total number of prescriptions priced was 123,600, against 134,100 during the previous year. The cost of the drugs was 4,369*l.*, against 4,230*l.*; the average cost per insured person was 23*d.*, against 22½*d.*; and the average cost per prescription was 8½*d.*, against 7½*d.*

Halifax.—The Insurance Committee, at a quarterly meeting held recently, received a scheme for the appointment of a Special Sub-Committee (comprising two members and the secretary of the Pharmaceutical Committee and two members and the clerk of the Insurance Committee), who will provide that on week-days a sufficient number of chemists' shops will be open to 7.30 p.m.; on early-closing days at least one shop shall be open in the centre of the town for not less than one hour; and on holidays at least one shop shall be open for not less than one hour. Double dispensing-fee is provided for dispensing "urgent" prescriptions after hours. A letter from the Ministry of Health was considered asking for their comments on a communication received from a herbalist (Mr. W. Burns Lengard) with respect to a patient's application to make her own medical benefit arrangements. The letter was referred to a Sub-Committee which had also before them a resolution of protest on the same subject from the local branch of the People's League of Medical Freedom. In neither case was any action taken.

Hampshire.—A meeting of the Pharmaceutical Committee was held at Southampton on June 16, Mr. Smith (Gosport) presiding. The secretary presented the balance-sheet for the year 1919, which showed a balance of 45*l.* 11*s.* 9*d.* The Central Checking Bureau reports for the months October, November, December 1919 and January 1920 showed that the net result was *plus* 4½*d.* for the four months. Complaints were received of prescriptions being issued in the area with quantities unnamed, and it was decided to report the matter to the Insurance Committee. Attention was also drawn to the large number of private recipes in use in a certain district of the area, which is against the existing agree-

ment, and this matter was also to be referred to the Insurance Committee.

Kent.—The Insurance Committee met recently, Mr. C. Iggesden presiding. The Finance and General Purposes Sub-Committee reported that the Joint Pricing Committee had received no accounts from certain chemists during this year, and stating that if chemists' accounts are over three months in arrears the Joint Committee had decided to ask the Insurance Committee whether they were prepared to pay the extra cost involved in pricing. The Insurance Committee agreed to the extra cost being debited to the Committee, and resolved that the Pharmaceutical Service Sub-Committee may recover the additional expense from the chemists concerned. The following details of the pricing of prescriptions for 1919 were reported: Number of prescriptions, 632,104; ingredient prices, 13,518*l.* 16*s.* 2*d.*; dispensing-fees, 9,963*l.* 0*s.* 11*d.*; average ingredient price, 5.13*d.*; dispensing-fee, 3.78*d.* The Medical Benefit Sub-Committee reported that the Ministry of Health has held that capsicum wool and thermogene should be regarded as appliances. It followed, therefore, that they could not be supplied to insured persons free of charge. The technical officer of the Pricing Office was of the opinion that the articles should not be classed as appliances, and objection had been raised by the Joint Pricing Committee. The Sub-Committee has communicated with the Ministry on the matter. A Special Joint Sub-Committee has under consideration in detail the hours of service of chemists, who have been informed that the hour at which the medicine is supplied should be entered on the back of a prescription over the signature of the chemist where the late fee is claimed.

London.—A meeting of the Insurance Committee was held on June 24, at which the reports of the various Sub-Committees were considered. The following is abstracted from the agenda: The Finance Sub-Committee recommended payment of accounts amounting to 39,595*l.* 12*s.* 5*d.*, which included payments to chemists for the medical year 1920 of 17,478*l.* 12*s.* 10*d.* The Minister of Health intimated that, as annual elections of the Panel and Pharmaceutical Committees appear unnecessary, he proposes to make regulations extending the term of office of the present members to December 31, 1920, but providing for an early date in any area where a majority of the practitioners so desire. The Medical Benefit Sub-Committee reported that the number of persons supplying drugs and appliances on May 31 numbered 717, constituted as follows: Chemists in general business, 655; in institutions, 38; other persons, 24. The names of eleven persons have been added to the list of those supplying drugs and appliances, and ten withdrawals have been notified.

Smethwick.—A meeting of the Insurance Committee was held recently, at which the Medical Benefit Sub-Committee gave the following statistical data, received from the Pricing Bureau, regarding prescribing for the quarter ended March 31:

No. of prescript.	... 34,144	Av. ingred. price	... 3.51 <i>d.</i>
Cost of ingred.	... 352 <i>l.</i> 15 <i>s.</i> 5 <i>d.</i>	Av. disp.-fee	... 5.08 <i>d.</i>
Dispensing-fees	517 <i>l.</i> 8 <i>s.</i> 7 <i>d.</i>	Av. total cost per person	7.04 <i>d.</i>

A rota of chemists has been prepared by the Pharmaceutical Committee, providing that one chemist in each district shall be open on Wednesday evenings from 6.30 to 8 p.m. and until 8.30 p.m. on Monday evenings. The Sub-Committee recommend that the rota be approved. The Finance and General Purposes Sub-Committee reported that draft regulations have been issued extending the term of office of the Panel and Pharmaceutical Committees to December 31, with a proviso that an election shall take place in any area at an earlier date if desired by the medical practitioners or chemists. The question of annual elections will be considered at the annual conferences of doctors and pharmacists. The statement of accounts includes the following with regard to the Drug Fund: Payments to chemists, February balances-March advances, 284*l.* 12*s.* 3*d.* March balances-April advances, 257*l.* 16*s.* 4*d.* The expenditure from January 1 to May 20 includes 1,013*l.* 2*s.* 7*d.* to the Drug Fund.

Surrey.—A meeting of the Insurance Committee was held on June 30, at which the reports of the various sub-committees were presented. The following information is abstracted from the agenda: The Hours of Service Sub-Committee consider that insured persons are not inconvenienced by chemists closing during the luncheon hour, and resolved that action in the matter be deferred for the present. Several applications from districts and individual chemists were dealt with, and two doctors at Horley have petitioned for an extension of the chemists' hours beyond 7 P.M. The matter is to be further considered. The Medical Benefit Sub-Committee reported that three chemists had resigned from the panel, and three additional names had been added. The Finance and General Purposes Sub-Committee recommended that an advance payment of 150*l.* be made on July 1 to the Joint Committee on Pricing Prescriptions, this sum to be increased by 25*l.* if other Committees are taking similar steps. It was also recommended that chemists who have not sent in accounts to the Joint Committee will be treated as having committed a breach of their agreement, and the matter will be referred to the Pharmaceutical Service Sub-Committee. The Committee, however, will pay the extra cost involved in pricing these prescriptions. The sub-committee are in favour of increasing the advance payment to chemists from 6*d.* to 9*d.* In the statement of accounts, advances and balances to chemists amounted to (May 26) 1,509*l.* 6*s.* 4*d.* and (June 16) 1,389*l.* 7*s.* 3*d.* Deductions on behalf of the Pharmaceutical Committee in the same periods were 41*l.* 5*s.* 3*d.* and 37*l.* 6*s.* 6*d.*

THE NORTH-EAST MIDLAND PRESCRIPTION BUREAU has recently issued its annual report and statement of accounts for the year ended December 31, 1919. The total number of prescriptions dealt with amounted to 1,867,878, with a value of 59,047*l.* 17*s.* 4*d.*, and it is shown that Sheffield is the only area in the district where the ratio which new Tariff prices bear to Article 5 Tariff prices works out at more than the old rate, the actual percentage being 103.08. It was decided to price prescriptions dispensed in connection with the treatment of tuberculosis under local authorities, provided application was made, the Ministry of Health being agreeable. The accounts for the year ended December 31 show a net expenditure of 2,299*l.* 9*s.*, equal to a cost per 1,000 of 1*l.* 4*s.* 7½*d.* The estimated expenditure for 1920 is 2,402*l.*, being at the rate of 1*l.* 5*s.* 4*d.* per 1,000. The value of scripts scrutinised by the Pharmaceutical Society is given as 6,769*l.* 5*s.* 10*d.*, and the net value of alleged errors 5*l.* 9*s.*, being a percentage of 0.08.

June Drug Tariffs.

The following are the alterations for June in the Drug Tariff for England and Wales issued by the Ministry of Health:

Lower.—Adeps benz., 3*s.* 1*d.* lb.; adeps lanæ, 2*s.* 10*d.* lb.; adeps lanæ hydrosus, 2*s.* 4*d.* lb.; adeps præp., 2*s.* 11*d.* lb.; collod. belladon., B.P.C., 1*s.* 3½*d.* oz.; ext. filic. liq., 2*s.* 4*d.* oz.; ext. hyoscyam. sioc., 1*s.* 11*d.* oz.; hydrarg. iod. rubr., 1*s.* 9*d.* oz.; hydrarg. oxid. flav., 10*s.* 8*d.* lb.; hydrarg. subchlor., 10*s.* 8*d.* lb.; hydrargyrum amm., 11*s.* 6*d.* lb.; lin. methyl. sal. co., B.P.C., 16*s.* 6*d.* lb.; menthol, 5*s.* 4*d.* oz.; ol. morrhuae (Norwegian opt.), 23*s.* gal.; phenazon., 3*s.* oz.; plumbi acet., 2*s.* lb.; podoph. res., 5*s.* 8*d.* oz.; resorcinum, 4*s.* oz.; ung. gallæ c. opio, 8*s.* lb.; ung. hyd. ammon., 4*s.* lb.; ung. hyd. co., 8*s.* 9*d.* lb.; ung. hyd. nit., 5*s.* 6*d.* lb.; ung. hyd. nit. dil., 2*s.* 10*d.* lb.; ung. hyd. oleat., 4*s.* 10*d.* lb.; ung. iodoformi 7*s.* 6*d.* lb.; ung. picis liq., 3*s.* lb.; ung. plumbi iod., 5*s.* 10*d.* lb.; ung. resinæ, 4*s.* lb.; ung. staphisagriae, 4*s.* 9*d.* lb.; ung. sulphuris, 3*s.* 4*d.* lb.; ung. zinci, 3*s.* 1*d.* lb. Carbolised tow, 12*0d.* per lb.

Higher.—Æther, B.P., 0.720, 4*s.* lb.; caffeine, 5*s.* oz.; caffeine cit., 3*s.* 8*d.* oz.; chloroform, B.P., 6*s.* 2*d.* lb.; chloroform. camph., B.P.C., 18*s.* 6*d.* lb.; collod. flexile meth., 5*s.* 6*d.* lb.; collod. vesicans, 2*s.* 3*d.* oz.; ext. ergotæ, 28*s.* oz.; ext. ergot. liq., 56*s.* lb.; hexamina, 1*s.* 11*d.* oz.; lin. aconit. meth., 4*s.* lb.; lin. chlorof., 8*s.* 2*d.* lb.; lin. sap. meth., 2*s.* 10*d.* lb.; liq. gutta percha, B.P.C., 11*s.* 6*d.* lb.; ol. olivæ (sublime), 30*s.* gal.; pulv. cretæ aromat., 3*s.* 4*d.* lb.; pulv. cretæ c. opio, 5*s.* 6*d.* lb.; sacc. alb. pulv. subtil., 1*s.* 8*d.* lb.; sodii arsenas anhydrosus, 7*s.* 8*d.* lb.; sodii et pot. tart., 2*s.* 11*d.* lb.; spt. chlorof., 8*s.* 2*d.* lb.; spt.

vinum meth., 10*s.* 9*d.* gal.; suppos. acid. tannic., 8*0d.* doz.; suppos. belladon. gr. ½-2, 8*0d.* doz.; suppos. iodoformi gr. 3, 10*0d.* doz.; ditto gr. 5, 12*0d.* doz.; suppos. morphinae gr. ½, 10*0d.* doz.; ditto gr. 1, 12*0d.* doz.; ditto gr. 1, 16*0d.* doz.; syrupus, 1*s.* 11*d.* lb.; syr. aurantii, 3*s.* 7*d.* lb.; syr. calc. lactophos., 4*s.* lb.; syr. cascarae aromat., 4*s.* 10*d.* lb.; syr. chloral, 4*s.* 3*d.* lb.; syr. codeinae phosph., 5*s.* 5*d.* lb.; syr. ferri iod., 4*s.* 3*d.* lb.; syr. ferri phosph., 2*s.* 4*d.* lb.; syr. glycerophosph. co., B.P.C., 4*s.* 1*d.* lb.; syr. limonis, 2*s.* 10*d.* lb.; syr. pruni virg., 2*s.* 11*d.* lb.; syr. rhei, 3*s.* 6*d.* lb.; syr. scillæ, 2*s.* 1*d.* lb.; syr. sennæ, 3*s.* 3*d.* lb.; syr. toluat., 2*s.* 4*d.* lb.; syr. zingib., 2*s.* 9*d.* lb.; tab. barbiton., gr. v., 6, 3*d.* doz.; tab. phenolphthalein, gr. i., 1, 6*d.* doz.; tab. salol, gr. v., 2, 1*d.* doz.; tab. santalin., gr. i., 26, 4*d.* doz.; tab. santalin. co., B.P.C., 27, 0*d.* doz.; tr. chlorof. et morph. co., 12*s.* 8*d.* lb.; tr. chlorof. et morph. '85, 5*s.* lb.; tragacanth. pulv., 38*s.* lb.; ung. ac. carbol., 2*s.* 8*d.* lb.; ung. hydrarg., 6*s.* 10*d.* lb.; zingiber jam. pulv., 3*s.* 4*d.* lb. Picric acid gauze, 37, 5*d.* per package. Oiled cambric, 48, 0*d.* per sq. yd.

The following are the alterations for June in the Scottish Drug Tariff:

Acid. acetic. glac., 2½*d.* oz.; acid. gallic., 1*s.* 8*d.* oz.; adeps benz., 3½*d.* oz.; adeps lanæ, 3½*d.* oz.; adeps lanæ hydros., 3*d.* oz.; æther purif. 0.720, 5*d.* oz.; caffeine, 7*s.* oz.; caff. cit., 5*s.* 2*d.* oz.; chloral formamidum, 4*s.* oz.; chloroform, 8½*d.* oz.; chloroformum camph. (B.P.C.), 2*s.* 2*d.* oz.; collodium belladon. (B.P.C.), 1*s.* 10*d.* oz.; collodium flexile, 8*d.* oz.; collodium vesicans, 3*s.* 2*d.* oz.; emp. picis (spread on calico per square foot, rate of), 8*d.*; ergotin (B.P. 1898), 41*s.* 4*d.* oz.; ext. ergot., 5*s.* 7½*d.* dr.; ext. ergot. liq., 6*s.* 6½*d.* oz.; ext. filic. liq., 3*s.* 3½*d.* oz.; ext. hyoscy. sic., 2*s.* 8½*d.* oz.; hexamina (urotropine), 2*s.* 8½*d.* oz.; hydrarg. iod. rubrum, 2*s.* 5½*d.* oz.; hydrarg. ox. flav., 1*s.* 3½*d.* oz.; hydrarg. subchlorid., 1*s.* 3½*d.* oz.; hydrarg. ammon., 1*s.* 3½*d.* oz.; inf. ergotæ, 4*d.* oz.; lin. chlorof., 11*d.* oz.; lin. methyl. sal. co., 1*s.* 4½*d.* oz.; liq. gutta percha (B.P.C.), 1*s.* 4½*d.* oz.; menthol, 7*s.* 6*d.* oz.; ol. cubeb., 7*s.* 11½*d.* oz.; ol. morrhuae, 3*s.* 10*d.* Imp. pint; phenazon. (antipyrin), 4*s.* 2½*d.* oz.; podoph. resin., 7*s.* 11½*d.* oz.; pulv. cretæ arom., 4*d.* oz.; pulv. cretæ arom. cum opio, 6*d.* oz.; resorcinum, 5*s.* 7½*d.* oz.; salicin, 7*s.* 8½*d.* oz.; sod. arsenas, 8½*d.* oz.; sp. chlorof., 8½*d.* oz.; sp. vini meth., 1½*d.* oz.; syrup, 3*d.* oz.; syr. ferri phosph., 3½*d.* oz.; syr. tolu., 3½*d.* oz.; tinct. chlorof. et morph. co., 1*s.* 6½*d.* oz.; tragacanth. pulv., 4*s.* 5½*d.* oz.; ung. belladon., 2*s.* oz.; ung. hydrarg. amm., 4½*d.* oz.; ung. hydrarg. iod. rub., 6*d.* oz.; ung. hydrarg. nit., 6*d.* oz.; ung. picis liq., 3½*d.* oz.; ung. plumbi iod., 6½*d.* oz.; ung. pot. iod., 7*d.* oz.; ung. resinæ, 4½*d.* oz.; ung. zinci, 3½*d.* oz.; zinci chlor., 6*d.* oz.; zingiber. pulv., 4½*d.* oz. Containers: Medicine bottles, 1½ oz., 3*d.*; 1½ to 8 oz., 4*d.*; 8 to 10 oz., 5½*d.*; 10 to 12 oz., 6½*d.*; 12 to 16 oz., 7½*d.*; 16 to 20 oz., 9*d.*; 20 to 24 oz., 9½*d.*; 24 to 32 oz., 1*s.* 1*d.*; 32 to 40 oz., 1*s.* 2½*d.* Poison bottles, 1½ oz., 3*d.*; 1½ to 4 oz., 4½*d.*; 4 to 8 oz., 5½*d.*; 8 to 10 oz., 7*d.*; 10 to 12 oz., 7½*d.*; 12 to 16 oz., 8*d.*; 16 to 20 oz., 10½*d.*; 20 to 24 oz., 1*s.*; 24 to 32 oz., 1*s.* 3*d.*; 32 to 40 oz., 1*s.* 5½*d.* Appliances: Gauze, picric acid, 4*s.* 2*d.* per roll; gauze and cotton-wool tissue, 4*s.* per lb., 4*d.* per oz.; wood wool, 3*s.* 4*d.* per lb., 10*d.* per ¼ lb., 2½*d.* per oz.; oiled cambric, best quality, 33 in. width, 5*s.* 4*d.* per yard.

THE term of office of the Insurance Committees in England is to be extended for a further period of one year.

PUBLIC ANALYST'S SALARY INCREASED.—The salaries committee of Burnley Corporation has recommended that the salary of Major R. Ross, public analyst, be increased to 750*l.* by annual increments of 50*l.*

CANADIAN CHEMICAL INDUSTRY.—Chemical Products, Ltd., Toronto, have acquired the works at Trenton, Ontario, formerly owned by the British Chemicals, Ltd., and operated by the Imperial Munitions Board. The works will be divided into four units. The first section is a sulphuric-acid plant, and will be operated largely for fertiliser production. The nitric-acid plant will be used later with a view to producing mixed acids for explosives, dyes, intermediates, etc. Plant No. 2 will be used for the manufacture of refined nitrate of soda, Epsom salts and general chemicals. In plant No. 3 it is proposed to make aspirin, salicylic acid, sodium salicylate, methyl salicylate, cresotinic acid, etc. The production of ammonia and coke-oven by-products is contemplated in plant No. 4, including sal-ammoniac, ammonia, carbonate, liquor ammonia, aromatic hydrocarbons, and whitening.

Trade Report.

42 Cannon Street, E.C. 4, July 1.

THERE is no relief to the depression in the produce markets, and, as will be seen from the table given below, the tendency for prices to sag is distinctly evident. The end of the half-year finds the joint-stock banks still tightening up their loans and restricting credit facilities, and borrowers have all this week resorted to the Bank of England for large amounts at $7\frac{1}{2}$ per cent., an unusual proceeding for Lombard Street. Those who have the cash available are able to secure various lines of produce where stocks are above normal at prices well under the nominal rates quoted. Among the principal alterations of the week is a reduction of 1s. 6d. per lb. in English refined camphor. Industrial and methylated spirit has been advanced 1s. 8d. per gal.; an advance is reported to be pending in chloroform. Shellac is strong and dearer. Orange TN seconds being comparatively scarce. Hexamine is firmer following on an American advance, soda hyposulphite (pea crystal) is scarce and firmer, and lump sal ammoniac has advanced 5s. On the other hand, there have been declines in albumen, copper sulphate, cream of tartar, fenugreek-seed, Jamaica ginger, lemon oil, senega, tartaric acid, peppers, agar-agar, Japanese camphor, cassia lignea, ergot (c.i.f.), areca, lead-products, acetanilide, amidopyrin, phenazone, salol, guaiacol carbonate, vanillin, paraldehyde, turpentine, etc.

Higher	Firmer	Easier	Lower
Linseed oil	Bergamot oil	Acetanilide	Agar-agar
Sal ammoniac, lump	Hexamine	Albumen	Areca
Shellac	Patchouli oil	Amidopyrin	Calumba
Spirit, industrial and mineralised	Soda hyposulphite	Amyl salicylate	Camphor (Eng. ref. tahs. and flowers)
		Anise oil, star Benzoin (Sumatra)	Camphor (Jp. ref. slabs)
		Copper sulphate	Cassia lignea
		Cream of tartar	Castor oil
		Fenugreek-seed	Citric acid
		Formaldehyde	Cloves (Zan.)
		Formic acid	Coriander-seed
		Ginger (Jam.)	Cresote (beechwood)
		Lemon oil	Ergot (c.i.f.)
		Pepper	Geraniol (ex palmarosa)
		Salol	Guaiacol carb.
		Senega	Honey
		Senna	Ipecacuanha
		Tartaric acid	Lead-products
			Mace
			Menthol
			Milk-sugar
			Mint oil
			Nutmegs
			Olive oil
			Orange oil (Sic.)
			Paraldehyde
			Patchouli-leaves
			Phenazone
			Turpentine
			Vanillin

Cablegram.

BERGEN, June 24.—The catch of cod amounts to 37,993,000, against 30,183,000 at the corresponding date of last year, and the yield of steam-refined oil is 56,584 barrels, against 37,612 barrels at the same date of 1919. Market remains quiet.

NEW YORK, June 30.—Business in drugs is quiet. Morphine hydrochloride has declined by \$1 per oz. Menthol is also lower at \$7.75 per lb. Podophyllum-root (mandrake) has been reduced to 38c., buckthorn-bark to 48c., and stramonium-leaves to 40c. per lb. Formaldehyde is cheaper at 50c. per lb., and camphor at \$1.55 per lb. Saccharin is lower at \$3.75. Chloral hydrate has advanced to \$1.5 per lb.

ACETANILIDE.—With large stocks and a slow sale competition is very keen at from 3s. 10d. to 4s. per lb. as to quantity and seller.

ACETIC ACID is easier, 99 to 100 per cent. glacial in barrels offering at 110l. to 115l. per ton, and 80 per cent. pure at 95l.

AGAR-AGAR is cheaper, No. 1 Japanese strip offering at 2s. 6d. per lb. and No. 2 Yokohama at 2s. 3d. on the spot. In the drug-auction ten bales of Japanese water-damaged sold at 1s. 6d. per lb.

ALBUMEN.—Prime Chinese egg is offered at 4s. 1d. per lb. on the spot, and June-August shipment at 3s. 8d. c.i.f.

AMIDOPYRIN is rather lower at 52s. 6d. per lb. on the spot, there being little export demand.

ANISE remains unchanged at 88s. per cwt. for Russian and 95s. to 100s. for Spanish, but business is unimportant.

ANTIMONY.—There is no improvement in the demand, and it is just possible that official prices for home regulus will again be reduced from the current rates of 60l. to 63l., while second-hand lots are obtainable at less. Moreover, these figures indicate an unduly wide margin against the comparatively low prices ruling for foreign refined, which varies from about 45l. to 47l. c.i.f. for shipment up to about 50l. for spot parcels. There seems a fair supply of crude, but interest is lacking even at 40l. c.i.f.

ARSENIC.—The tone is firm at about 75l. for best white Cornish powder delivered London, the supply being limited.

CAMPHOR (CRUDE).—Chinese is lower, with sales of July-September shipment at 3s. 9d. per lb. c.i.f.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are lower, with spot sales at from 8s. to 7s. to 6s. 3d. per lb. The English refiners have reduced their prices by 1s. 6d. per lb., quoting from 11s. 6d. to 12s. per lb. for flowers, according to quantity; tablets have been reduced in proportion.

CANARY-SEED is quiet but steady at 175s. per quarter for good Morocco and 210s. to 250s. for good to fine Spanish. Ordinary quality of Morocco is difficult of sale in face of competition with River Plate, which is being contracted for at 31s. to 32s. per cwt. c.i.f. terms.

CASSIA LIGNEA is lower, with whole selected on the spot offering at 65s. per cwt. and broken at 55s.

CASTOR OIL has declined about 3l. per ton, pharmaceutical quality of Hull make offering at 83l. per ton, first pressing at 80l., and second pressing at 78l. per ton, barrels included, ex works, Hull. Apart from the pressers, Hull make of medicinal quality in barrels can be had at 75l. per ton.

CHLOROFORM.—It is reported that an advance on the part of the makers is about to take place.

CITRIC ACID remains flat at from 5s. 3d. to 5s. 6d. per lb.

CLOVES continue dull and lower, Zanzibar offering on the spot at from 1s. 5d. to 1s. 6d. per lb.

COCAINE.—Hydrochloride is steady at from 38s. to 39s. per oz. as to quantity, although coca-leaves were lower at the Amsterdam auction, the alkaloidal yield was poor.

COD-LIVER OIL.—Our Bergen correspondent writes on June 23 that the cod-fishing is now to be considered as closed, and the next report will probably be the last. The market for finest medicinal oil remains extremely quiet, and buyers have entirely withdrawn. The exports from Norway up to June 12 amount to 16,882 barrels. The official figures for the week ending June 19 show that the Finmarken fishing from its commencement on April 12 resulted in 6,811,000 cod, with a yield of 10,456 hect., leaving 1,826 hect. liver for crude oil.

COPAIBA of B.P. quality is quoted at 3s. 10d. per lb.

COPPER SULPHATE.—The export trade is idle, and there is very little doing for the home trade, while it is doubtful whether the demand for Irish farm needs forthwith will be as good as it was last year. The fact may be mentioned that makers have been making some purchases of rough bar copper just lately in order to increase their operations a little, although prospects are most disappointing. Makers' terms vary considerably, while the nearest quotation f.o.b. Liverpool is 46l. for casks, less 5 per cent.

CORIANDER-SEED is lower at 17s. per cwt. for sound Morocco and at 13s. for slightly wormy.

CREAM OF TARTAR can be had at 290s. per cwt. for 99 to 100 per cent. powder, less the usual discount, being easier.

CREOSOTE (BEECHWOOD).—Genuine B.P. can be had at 9s. 6d. per lb., but, as mentioned last week, the United States is offering at much below this price, but not B.P. quality.

CUMIN-SEED is slow of sale, but fairly steady at 40s. to 42s. 6d. per cwt. for good to fine sifted Morocco.

DILL-SEED is unchanged at 16s. to 17s. per cwt. for fair to good East Indian.

EGG-PRODUCTS continue quiet. Chinese liquid hen-yolk containing 2 per cent. boric acid is offered at 70s. to 75s. per cwt. on the spot, and July-September shipment is 70s. c.i.f. Dried native whole is 10d. per lb. on the spot, sprayed whole egg 2s., and dried yolk 9d. per lb.

ERGOT.—The new crop of Spanish is offered to arrive at from 20s. to 21s. per lb. c.i.f., but it does not always follow in these days that if the order is accepted by the Spanish exporter at the price quoted, the transaction will go through, as the tendency is to make the buyer pay for any loss on exchange. The time is, however, approaching when the market may be less dependent on Spanish ergot. In the drug-auction 3 bags Spanish (sample not on view) were held at 34s. per lb.

FARINA is quiet, No. 1 Japanese offering at 27s. per cwt., and for July-August shipment 26s. c.i.f. is quoted.

FENNEL-SEED sells slowly at 34s. to 35s. per cwt. for East Indian.

FENUGREEK-SEED is a little easier at 9s. 6d. to 10s. per cwt. for dull to good Morocco.

FORMALDEHYDE is a shade easier, at about 345s. to 350s. per cwt. in barrels for 40 per cent., and slightly less for quantity.

FORMIC ACID is slightly easier, 80 per cent. commercial offering at 130l. and 70 per cent. at 115l. per ton in barrels.

GINGER.—Jamaica is easier, spot offering at from 190s. to 210s. per cwt. Japanese is offered at 60s., at which sales have been made, and Sierra Leone at 65s. per cwt., both spot. Wormy washed Cochin is 60s., and new crop sound 80s. per cwt.

GUAIACOL CARBONATE is cheaper from dealers, at from 27s. to 29s. per lb.

HEXAMINE is firmer in the United States, and this market follows, sellers quoting from 17s. 3d. to 17s. 6d. per lb.

HYDROQUINONE is quoted firm at 10s. to 15s. per lb. according to quantity.

KOLA weighing 1,698,506 lb. and valued at 130,051l. was imported into Gambia from the neighbouring colony of Sierra Leone during 1918, these figures constituting a "record" for both quantity and value imported. The quantity imported exceeded the previous highest recorded, that for 1916, by 259,872 lb., and the value, that for 1917, by 17,179l.

LEAD-PRODUCTS.—The recent further fall in pig lead caused another all-round cutting of prices at the close of last week; the anxiety of manufacturers is to give their customers the benefit of fluctuations in raw material in order to stimulate business. The fall in white-lead amounted to 2l. to 2l. 5s. a ton, dry white-lead being 61l. 10s., and ground white-lead in oil 71l. 5s. f.o.b. for export. Lead-oxides were lowered 2l. 10s. a ton, the quotation of both red-lead and litharge for lots under 5 tons being 57l. 5s., and for 5 tons and more 55l. 15s., these terms applying to both home trade and export.

LINSEED OIL.—There has been a fair revival in the demand, and the recovery already mentioned in our previous issue has made further considerable progress. The sharp rise in seed-prices, especially for Calcutta and Bombay seed, which is in some measure the outcome of the considerable rally in silver, has influenced sentiment. Distant oil is firmly held, having again reached the "eighties," and shows now only a small discount as compared with spot delivery. Crushers are looking for prices more in line with the cost of raw material, but the outlook is uncertain, and on Tuesday a weaker feeling was evident, spot closing at 78l. and Hull at 74l. 15s. naked.

MENTHOL.—Buying is strictly hand to mouth, Kobayashi-Suzuki selling on the spot at 33s. 6d. to 32s. 6d., and Yazawa at 30s. The above prices are those at which business has actually been done for single cases and broken bulk. Lower prices than the foregoing have been quoted in the daily newspaper press, but they do not appear to be authentic.

METHYL SALICYLATE is offered at from 4s. 9d. to 5s. 3d. per lb. on the spot as to seller.

MILK-SUGAR is again lower, finest Dutch offering at from 180s. to 195s. per cwt., according to quantity.

OLIVE OIL is decidedly cheaper, with French or Spanish edible offering at 17s. per gallon in barrels, ex wharf London.

PARALDEHYDE is lower, importers offering at from 5s. per lb. upwards.

PARANITRANILINE has been in good demand, selling at 6s. per lb.

PEPPER.—Black continues weak, spot Singapore offering at 6½d. per lb. To arrive the sales include July-September at 6½d. c.i.f. Lampong on the spot is 7d., Tellicherry 7½d., and Alleppy 6¾d. per lb. White pepper is easier, fair Muntok offering at 11½d. on the spot; sales to arrive include August-October at 11½d., and October-December at 11d. per lb. c.i.f. Singapore is 11½d. per lb. spot.

PHENAZONE is rather cheaper, offering at from 23s. to 24s. per lb. on the spot, according to quantity.

POTASH BROMIDE.—The very low prices ruling appear to have induced a good business of late for investment purposes, and up to 2s. 8d. per lb. has been paid for ton lots on c.i.f. terms from the Continent; for small parcels of crystals 3s. per lb. is about the price.

POTASH IODIDE.—The exports from Japan during March amounted to 2,055 kin, valued at 18,430 yen. During the three months ended March 31 they were as follows:

		1918	1919	1920
Kin	...	42,326	23,386	6,001
Yen	...	252,683	152,015	54,138

Of crude iodine, 166 kin., valued at 1,860 yen, were exported during March, and the exports for the months ended March 31 were:

		1918	1919	1920
Kin	...	19,636	4,580	1,301
Yen	...	123,503	31,955	13,831

QUICKSILVER.—There has been no special development beyond the renewed falling off in demand, and this caused sellers of Italian metal to cut their price down to about 19l. per bottle. The market on Tuesday steadied a little, and the lowest quotation then was 19l. 10s., with sellers at 20l. The limit of the leading importers is reported to be still 21l. per bottle for Spanish. There is now a little more demand, but business with the Far East is at a standstill.

QUINCE-SEED is extremely scarce on the spot, and importers state that only small lots are being offered in Spain; business has recently been done direct to the U.S.A.

SACCHARIN.—Home trade demand is quite flat, and prices have an easy undertone.

SAL AMMONIAC.—Lump has been advanced by 5l. per ton, first quality offering at 110l. per ton, second quality being 105l. per ton.

SALOL is quoted at from 5s. 6d. to 6s. 3d. per lb. on the spot according to seller.

SENEGA is rather cheaper, spot offering at 11s. per lb.

SHELLAC is dearer, with a genuine scarcity of usual standard TN Orange quality, for which from 640s. up to 675s. per cwt. has been paid on the spot; fine Orange is also very scarce, at about 925s.; AC Garnet is 620s. for cakey and IG 570s. Futures are also much dearer, the sales including August at from 650s. to 690s., October at 580s. to 625s. per cwt.

SILVER NITRATE.—The following are the quotations on June 30 based on a metal price of 52d. per oz. In quantities of 25 oz., 3s. 2d.; 50 oz., 3s. 1½d.; 100 oz., 3s. 1d.; 250 oz., 3s. 0½d.; and 500 oz., 3s. per oz.

SODA BROMIDE is slightly easier, offering at from 3s. to 3s. 3d. per lb.

SPIRIT (METHYLATED).—Makers have advanced their prices about 1s. 8d. per gallon, to the following rates:

	61 o.p.	64 o.p.
Industrial—		
100 gal. and upwards ...	8s. 1d.	8s. 2d.
30 „ to 100 gal. ...	8s. 3d.	8s. 4d.
10 „ to 30 „ ...	8s. 7d.	8s. 8d.
Mineralised—		
100 gal. and upwards ...	9s.	9s. 1d.
30 „ to 100 gal. ...	9s. 2d.	9s. 3d.
10 „ to 30 „ ...	9s. 6d.	9s. 7d.

TARTARIC ACID.—Slightly more animation has been shown on home trade account, probably induced by the warm weather, but prices generally are easier, at from 3s. 6d. to 3s. 7d. per lb.

THYMOL.—British-made crystals are quoted on spot at 45s. per lb.

VANILLIN is extremely dull at the moment, spot prices varying at from 72s. to 75s. per lb., as to seller. It is not anticipated the buyers can hold off much longer.

WAX, VEGETABLE.—Japanese is easier, with spot sellers at 105s. The exports from Japan during March amounted to 54,937 kin, valued at 28,776 yen. During the three months ended March 31 they were as follows:

	1918	1919	1920
Kin ...	1,468,670	468,364	276,977
Yen ...	502,831	153,128	152,205

London Drug-auctions.

London Commercial Sale Rooms,

Mincing Lane, E.C. 3, July 1.

JUDGING by the large quantity of drugs offered at to-day's auctions, it might have been thought by an "outsider" that the brokers were going to find a brisk sale for them; but the fact is that produce has arrived so freely of late, and much of it on consignment, that an effort must be made by the broker in the importers' interests to call public attention to the goods and find a market for them. However, in sympathy with private trading, there was no desire to buy except to fill orders, as the general expectation is for still lower prices, and in this buyers were, with few exceptions, not disappointed. At the same time, it must be acknowledged that prices of many items are reaching a level which show a loss to importers, especially as the banks are very reluctant to help traders. Imports will therefore have a tendency to fall off presently. Cape aloes failed to sell, likewise cardamoms, which were very flat. Sumatra benzoin was slightly easier. Calumba is now offered at considerably reduced prices. Dragon's-blood is quiet, with small sales of reboiled; Siam gamboge is maintained at previous rates. Honey tended easier, with only a small demand. Ipecacuanha is about 3s. 6d. per lb. lower for sound Matto Grosso. Aden myrrh is steady. Rhubarb is extremely quiet, likewise senna and beeswax.

	Offered	Sold		Offered	Sold
Agar-agar ...	10	10	Calumba...	1009	0
Alkanet-root ...	8	0	Camphor (Ch. cr.)	100	0
Almonds, bitter	2	0	Cannab. ind. (B'bay tops)	2	0
Aloes—			(Cape)	25	0
Cape ... (cs.)	104	0	Cardamoms	571	24
Ambergris ... (oz.)	31½	9	Cascara sagrada	200	0
Ammoniacum ...	9	0	Cascarilla	10	0
Anise (Span.) ...	50	0	Cashew-nuts	100	0
Anise, star ... (cs.)	181	100	Cassia fistula	6	0
Anise oil, star ... (cs.)	69	0	Cevadilla-seed	20	0
Annatto-seed ...	26	0	Chamomiles	19	0
Apricot-kernels	12	0	Chaulmoogra oil (cs.)	5	0
Araroba ...	57	0	Chillies	17	0
Areca ...	130	29	Cinchona	410	0
Argol (Cape) ...	21	0	Cinnamon-bark	150	0
Bael fruit ...	1	1	Cinnamon-leaf oil	1	0
Balsam Peru ...	3	0	Cocculus ind.	5	0
Balsam tolu ...	11	*2	Cochineal	16	0
Bayberry-bark ...	5	0	Colocyath	9	0
Benzoin—			Condurango	33	0
Palembang ...	42	0	Croton-seed	19	0
Siam ...	13	0	Cubebs ...	48	0
Sumatra ...	286	87	Cuttlefish-bone	599	0
Black-haw ...	25	0	Dill-seed...	50	0

* Sold privately.

	Offered	Sold		Offered	Sold
Dragon's-blood	30	1	Olibanum ...	412	13
Elecampane ...	6	0	Orange-peel ...	84	0
Elemi ... (cs.)	132	0	Papain ...	2	0
Ergot ... (bgs.)	3	0	Patchouli-leaves	24	24
" ... (lb.)	215	0	Pilocarpine hyd. (tins)	5	0
Euphorbia ...	20	0	Rhatany ...	14	0
Fennel-seed ...	73	0	Rhubarb (Ch.)	95	0
Frangula-bark...	57	0	Rose oil ... (pots)	3	0
Galangal ...	52	0	Sage-leaves	135	0
Galbanum ...	43	0	Sandalwood oil (cs.)	3	0
Galls ...	51	9	Sandarac ...	5	0
Gambier ...	13	0	Sarsaparilla—		
Gamboge ...	28	0	Grey Jamaica	23	23
Gentian ...	36	0	Lima ...	48	0
Guaiacum ...	41	*2	Mexican ...	50	0
Gum acacia ...	190	3	Native Jam. ...	69	15
Gurjun oil ... (drms.)	50	0	Scopolia ...	66	0
Honey—			Senna and pods—		
Australian ...	77	0	Alex. ...	89	0
Californian ...	393	10	Tinnevely ...	771	13
Cuban ...	93	45	Simaruba ...	10	0
Hayti ...	10	0	Soy ...	10	0
Jamaica ...	997	21	Squills ...	15	0
New Zealand ...	58	0	Strophanthus ...	18	0
San Domingo ...	175	11	Tamarinds—		
West Indian...	53	7	East Indian ...	167	0
Hydrastis ...	2	0	Tragacanth ...	5	0
Insect powder ... (kgs.)	18	0	Turmeric ...	413	0
Ipecacuanha—			Uva-ursi ...	9	0
Cartagena ...	6	0	Valerian (Ind.)...	75	20
Matto Grosso	93	6	Wax (bees)—		
Minas ...	8	0	Abyssinian ...	171	0
Jalap ...	20	0	Aden ...	3	0
Juniper-berries	50	0	East African (various)	1435	39
Kamala ...	1	0	East Indian ...	178	0
Kola ...	61	11	Jamaica ...	1	1
Laurel-leaves	67	0	Madagascar ...	98	0
Lime bark ...	3	0	Mozambique ...	71	0
Liquorice-juice	25	0	Wax, Veg. (Jap.)	10	0
Liquorice-root ...	48	0	Wild-cherry bark	10	0
Myrabolans ...	20	20	Wine-lees ...	20	0
Myrrh ...	80	4	Witch-hazel-bark	5	0
Nux vomica ...	21	*21			

* Sold privately.

ALOES.—Cape, the only description offered, met with no demand, being held above buyers' ideas. Good firsts are obtainable at from 82s. 6d. to 85s. per cwt.

AMBERGRIS.—Three parcels, weighing 9 oz., sold at 70s. per oz.

AMMONIACUM.—Two cases of fair pale drop, part blocky, were limited at 9s. per lb., at which private sales have been made.

ANISE, STAR.—A lot of 100 cases Chinese sold at from 37s. 6d. to 40s. per cwt., and second-class sea-damaged at 20s., without reserve, on account of whom it may concern. Under protected conditions 160s. was asked.

ARECA.—Fair sound were obtainable at 50s. per cwt.; 29 bags of slightly wormy sold without reserve at from 50s. to 55s. per cwt.

BAEL FRUIT.—A single bag of ordinary sold at 10d. per lb.

BALSAMS.—Three cases Balsam Peru were held at 28s. per lb., which price is also asked privately; and 26 cases fair balsam tolu were limited at 7s. per lb.

BENZOIN was slightly easier. Six cases of good almondy Sumatra seconds sold at 11l. per cwt., and cross-cuts at 9l. 7s. 6d., subject to approval; 16 cases of fair almondy seconds sold at 9l. 5s., and cross-cuts at 8l. 15s.; 8 cases middling seconds realised 9l. per cwt., subject, and 37 cases of common and broken cross-cuts sold without reserve at from 70s. to 80s. per cwt., and 6 cases broken fourths went at 5l. 12s. 6d. to 5l. 15s. Fair Palembang seconds was obtainable at 5l. 10s.; 21 cases Siam offered, including good second almonds, part blocky, at 37l. to 37l. 10s., and pea and bean size at 33l. to 35l. 10s., and blocky grains at 18l. per cwt.

CALUMBA is lower, as fair natural sorts are now obtainable at 35s. per cwt.

CANNABIS INDICA.—Two cases fair Bombay tops were limited at 35s. per lb., at which small sales have been made privately.

CARDAMOMS were extremely flat, and practically nothing sold; some bids below owners' ideas of value were to be submitted. A case of good bold pale Ceylon-Mysore sold at 6s.; small pale 2s. to 2s. 3d.; extra bold splits, 3s. Six cases decorticated seed sold at 2s. 6d. per lb.

CASCARILLA.—Ten barrels of siftings were held at 2s. per lb.

CASSIA FISTULA.—Six bags Dominican (sample not shown) were retired at 180s. per cwt.

DILL-SEED.—A lot of 40 bags fair East Indian was bought in at 15s. per cwt.

DRAGON'S-BLOOD.—Three cases of good reboiled Singapore lump were offered and one sold at 29l. per cwt. Fourteen cases dull seedy lump were held at 15l., and ordinary dull slabs at 14l.

FENNEL-SEED.—In the drug-auction 40 bags of fair East Indian were limited at 35s. per cwt.

GUAIACUM.—Small sales of fair glassy lump have been made privately at 6s. 6d. per lb., which price was asked in auction for nine cases.

GURJUN BALSAM.—Fifty drums from Singapore were held at 2s. 6d. per lb.

HONEY.—Buyers were reluctant to operate owing to the dull state of trade, although considerable concessions would have been made by importers. Of Jamaica, 21 cases mixed liquid and setting sold at 80s., being 5s. under the limit; of San Domingo, a single cask sold at 95s. for pale set of strong flavour, and 10 casks at 45s. for brown set but fermenting; 93 casks Cuban sold at 40s. per cwt., subject to owner's confirmation, for light to dark brown liquid and setting. It is doubtful if this sale will be confirmed. The balance of this parcel was retired at 70s. Seven cases West Indian sold at 70s. for mixed colours liquid and setting, being very cheap. Ten cases Californian pale to light brown sold at the broker's limit of 95s., and the balance (90 cases) was retired at 95s.; 100 cases not quite so good were taken out at 90s. New Zealand (58 cases) light-brown set were held at 90s., and 48 cases Australian were held at 75s. for usual quality, which price has been paid privately. Towards the close of the sale 275 barrels Jamaica offered: nice pale liquid amber was held at 95s.; dark to light brown, 80s. to 90s.; 109 cases nice pale setting Californian were limited at 100s.

IPECACUANHA.—Lower. During the auction interval private sales of Matto Grosso had been made at 21s. 6d. per lb., but owing to arrivals at Liverpool and London (between 250 and 300 packages in a month) fair sound Matto Grosso was obtainable at 18s., but there were no buyers. Five bales of water-damaged and sea-damaged Matto Grosso sold at 15s. per lb., and these filled buyers' requirements.

KOLA.—Eleven bags West Indian sold at 4½d. per lb. towards the close of the auction; five bags Jamaica were held at 7d., five bags Java at 6½d., and five bags fair West African at 5d.

MYRABOLANS.—A lot of 20 bags, partly sound and partly country-damaged, sold at 9s. per cwt.

MYRRH steady, four bags of fair Aden sorts, slightly blocky, selling at 16l. per cwt.

ORANGE-PEEL was rather lower. Eleven cases of fair so-called Maltese strip sold without reserve at 11d. per lb. Good bright strip, under usual conditions, was held at from 1s. 3d. to 1s. 4d. Bids of 8d. to 9d. per lb. are to be made to the owner of 14 cases.

PATCHOULI-LEAVES.—A lot of 24 bales from Penang, imported in May, sold without reserve at 30s. per cwt. for sound, and for badly sea-damaged 25s. was paid.

SARSAPILLA was firm, 23 bales of genuine grey Jamaica being disposed of at 4s. 2d. per lb., part mouldy at 4s. 1d., water-damaged at 3s. 10d., and badly damaged by paint and water at 3s. Native Jamaica was also firm, five bales good red selling at 3s. per lb.; eight bales sold at 2s. 8d. to 2s. 10d. for common grey, part slightly mouldy, and 2s. 3d. for part mouldy. Mexican was offered at from 2s. 11d. to 3s., but nothing sold; 23 bales of Lima-Jamaica were bought in at 3s. 6d.

SENNA met with practically no demand. A few bales of fair greenish Tinnevely leaf sold at 7d. Four bales of sound Tinnevely pods sold at 4½d., and three grease-damaged bales went at 3d. per lb.

UVA-URSI-LEAVES.—Nine bags of fair were held at 7½d. per lb.

VALERIAN.—A lot of 75 bags Indian offered, and 20 sold at 27s. per cwt.

WAX, BEES'.—Flat: a single cask of Jamaica, all that offered, sold at 11l. 12s. 6d. per cwt. Twenty bags of

Mombasa block sold at 7l. per cwt., subject to sellers' approval. Nineteen blocks East African had been sold privately.

Essential Oils Market.

ACCORDING to several reports, there appeared to be some revival of interest in Sicilian oils at the end of last week; but, if so, this was of very short duration, as on the whole business remains depressed. At present there should be a seasonal trade for orange and lemon oils, but evidently the high price of sugar has adversely affected the sale of "soft-drinks," and the demand seems to have fallen below what normally is anticipated. Higher quotations are coming forward for bergamot, but orange is lower. There is little change among the other essential oils.

ANISE, STAR, continues quiet at 4s. 1½d. per lb. for "Red Ship" brand on the spot.

BERGAMOT.—Prices are firmer this week for 37-38 l.a., and although a few sellers may be willing to accept about 36s. to 37s., holders seem inclined to hold out for higher offers, from 38s. to 40s. being freely mentioned. A firmer tendency has also been reported for forward shipment, and 38s. to 42s. per lb. are the figures given. A report from Sicily dated June 23 states that after a momentary weakness, during which business was done at lower figures than last quoted, the market is again firmer. The exports from Sicily for the first five months of 1919 surpassed in value the shipments for either 1917 or 1918. In the period named 77,088 kilos. were exported, at an estimated value of 5,781,600 lire. Of this amount France took just about one-half (38,058 kilos.), with the United States next in order (15,432 kilos.), Great Britain third (14,878 kilos.).

BOIS DE ROSE (FEMELLE).—Very small supplies are said to be coming forward from the source. Spot quotations are made from 52s. to 55s. per lb. The following are the official figures, in kilos., relating to the amount of bois de rose (femelle) oil exported from French Guiana:

	Kilos.		Kilos.
From 1890 to 1899 ...	1,384	1914 ...	39,569
" 1900 " 1909 ...	5,369	1915 ...	24,668
" 1910 ...	22,147	1916 ...	33,119
" 1911 ...	42,642	1917 ...	31,044
" 1912 ...	35,936	1918 ...	19,276
" 1913 ...	44,676	1919 ...	13,913

CAMPHOR.—Japanese essential is unchanged at 185s. to 190s. per cwt. in drums; brown is easy at 145s. and upwards. Exports from Japan during March amounted to 143,323 kin, valued at 55,977 yen. During the three months ended March 31 they were as follows:

	1918	1919	1920
Kin ...	23,466	51,981	767,475
Yen ...	5,839	13,222	293,431

The above figures show an extraordinary increase for the March 1920 quarter.

CINNAMON.—Ceylon leaf has sold at 10½d. per oz., but the spot price appears substantially unaltered at 10d. to 11d., according to quantity.

CITRONELLA.—Some recent arrivals of Ceylon have been rejected owing to low yield of geraniol. The spot price appears unchanged at 3s. 4d. to 3s. 6d. per lb., according to quantity. Java is mentioned variously at from 5s. 6d. to 5s. 9d., although there are sellers at less. The exports of citronella oil, in kilos., from Ceylon and Java from 1914 to 1919 were as follows:

	1914	1915	1916	1917	1918	1919
Ceylon ...	646,000	770,000	635,000	790,097	587,675	477,722
Java ...	136,654	233,326	428,743	515,763	228,124	528,534

CLOVE is easy at 16s. to 17s. per lb. on spot, according to seller.

GERANIUM.—Bourbon is unchanged at 40s. to 41s. 6d. per lb. on spot. For forward delivery prices appear to be in the neighbourhood of 39s. For African the spot prices are similar, but quotations for forward shipment are higher.

LAVERENDER.—A further report from the South of France (*C. & D.*, June 12, p. 72) states that the forthcoming crop is expected to be of medium quality. The heavy rains of the past few days have had a beneficial effect on the plants, although in some districts hail had fallen. Contrary to what is believed to be the general opinion, present stocks are low, although parcels of medium ester value can still be found. For London stock, holders quote from 45s. to 47s. per lb., according to quantity, for ester value of about 40 per cent., and from 40s. to 42s. for 35 per cent.

LEMON continues depressed and is easy, spot offering at 7s. 6d. to 8s., and 7s. 6d. to 7s. 9d. c.i.f. to arrive. Lower quotations are said to have come forward from the source at the end of the week, but prospective buyers appear not to have been able to complete business at the prices mentioned. A report from Palermo dated June 23 states: The

local market has been very weak, and holders have been obliged to accept considerably lower figures than were reported at the beginning of the month. It would be rather difficult to define the actual tendency of the market. The oil on hand has been produced at a much greater cost than to-day's values, and as soon as anybody shows inclination to buy there are no more sellers, except at higher prices.

LEMONGRASS is unchanged at 1s. 1d. to 1s. 2d., but lower offers would be accepted.

LIME.—There appears to be practically no demand, and while prices for distilled are given from 7s. 6d. to 7s. 9d., less would be accepted. Hand-pressed is unchanged at 27s. 6d.

MINT.—Japanese dementholised continues quiet, with sellers of Kobayashi-Suzuki at 9s. 6d. per lb., and to arrive at 9s. 6d. to 9s. 10½d. c.i.f. Yazawa is 9s. spot. During the last three years the exports from Japan from January to March were as follows:

	1918	1919	1920
Kin	16,913	36,075	40,969
Yen	36,705	109,740	291,434

MUSTARD, B.P.—The spot quotations are unchanged at 65s. per lb.; artificial has been shaded to 27s. per lb.

ORANGE.—The spot price appears to be lower at 44s. to 45s. Forward quotations are given in the neighbourhood of 37s. 6d. per lb. Bitter is given at about 27s. 6d. c.i.f. West Indian is quoted at 38s. to 40s. spot.

OTTO OF ROSE.—Bulgarian, pure, sells at from 62s. 6d. to 70s. per oz. Anatolian is nominal at 45s.

PALMAROSA.—There are sellers at 25s. per lb., but the average figure appears to be somewhat higher, from 26s. to 27s. per lb., being quoted.

PATCHOULI is said to have been in fair demand, and cheap sellers appear to have sold out. The present spot price is given at 85s. to 88s. per lb.

PETITGRAIN.—Paraguay is offered afloat and to arrive at from 28s. to 30s. per lb., but spot prices are higher, from 30s. to 32s. being given. French is nominally at 40s., but there is a spot holder offering at 36s.

SPIKE.—French is unchanged at from 15s. to 16s. per lb., and Spanish is held at last week's quotations (12s. 6d. to 13s.).

THYME.—The following have been quoted for spot parcels: 30 to 35 per cent. phenols, 9s. 6d. per lb.; 40 to 45 per cent., 11s. 3d. per lb.; white, 30 to 35 per cent., 10s. 6d.

WORMSEED is said to be scarce at about 50s. per lb.

YLANG-YLANG shows considerable irregularity. For Bourbon, spot holders of good quality say about 7s. per oz. To arrive is offered at 6s. c.i.f.

Aromatic and Synthetic Chemicals

PRICES of aromatic and synthetic chemicals continue to show considerable irregularity, and it is difficult adequately to indicate the true state of this market. Amyl salicylate and heliotropin are easier, and geraniol palmarosa is lower.

AMYL SALICYLATE is easier on spot at 9s. 6d. to 11s. 6d.

BROMSTYROL varies from 37s. to 40s. per lb., according to holders.

EUGENOL is still irregular, according to holder, but there are sellers at 22s. 6d. per lb.

GERANIOL, ex palmarosa, is lower at about 38s. per lb. on spot.

For HELIOTROPIN on spot 30s. per lb. is quoted.

IONONE, 100 per cent., on spot is nominally unchanged, but a parcel is offered landing at 95s.

METHYL ANTHRANILATE is unchanged at 35s. per lb.

MUSK AMBRETTE afloat is offered at 315s., and a spot holder of 85 per cent. quotes 330s.

NEROLIN crystals are offered variously at 10s. to 12s. per lb.

TERPINEOL is offered at 6s. to 6s. 6d., according to holder. The following are included in recent arrivals:

Amyl salicyl. (Fr.), 5 cbs. (Holl.), 67½; aubepine (Holl.), 73½; benzyl acetate, 27½; bromstyrol (Holl.), 180½; coumarin (Germ.), 110½; geraniol. (Fr.) 82½, (Holl.) 529½; heliotropin, (Holl.) 797½, (U.S.) 421½; linalyl acetate (Holl.), 265½; methyl anthranilate (Holl.), 150½; phenyl acetic aldehyde (Germ.), 55½; phenyl ethyl alcohol, 55½; terpineol (Fr.), 27½.

Swiss Synthetics.

The total exports of artificial perfumes manufactured in Switzerland (synthetic musk, heliotropin, coumarin, vanillin, etc.) amounted to 44,000 francs in 1893, and increased to 7,220,000 francs in 1918. In connection with the supplies of raw materials for Swiss manufacturers, it is interesting to note that France has now supplanted Germany, the proportion of imported raw materials being 64 per cent. from Germany and 27 per cent. from France in 1914, whereas in 1918 the respective figures were 26 per cent. and 57 per cent.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

London

(June 7 to 14).

Chemical products, etc.: 12 pkgs.
Acetic acid, (N.Y.) 823 brls., (Holl.) 10 cks.
Acetylsalicylic acid (N.Y.), 68 kgs.
Amyl salicylate (Fr.), 5 pkgs.
Antimony oxide (Fr.), 31 cks.
Argol (Port.), 369 bgs.
Arsenic (Port.), 41 brls.
Barytes (Germ.), 40 cks.
Bismuth ore (Ch.), 19 bgs.
Borax (N.Y.), 914 sks.
Bromide potash, (Holl.) 25 cs., (Germ.) 10 cs.
Bromine (Fr.), 200 cs.
Calc. chlor. (It.), 217 cks.
Calc. tart. (Fr.), 145 bgs.
Citric acid, (Fr.) 100 cks., (It.) 200 cks.
Copper iodide (Jv.), 43 brls.
Formic acid (Holl.), 26 pkgs.
Gallic acid (N.Y.), 9 brls.
Hydrochloric acid (N.Y.), 12 pkgs.
Lactic acid (Fr.), 31 brls.
Lead acet. (Belg.), 61 cks.
Methyl salicylate (N.Y.), 23 cs.
Milk sugar, (Holl.) 200 cs., (N.Y.) 30 brls.
Naphthol (N.Y.), 171 brls.
Phenol, (Fr.) 25 pkgs., (Holl.) 117 drms.
Pot. caustic (Swe.), 61 cs.
Sal ammoniac (Belg.), 20 cks.
Salicylic acid (N.Y.), 100 cs.
Salol (N.Y.), 20 kgs.
Saltpetre (Cal.), 495 bgs.
Silver nitrate (Germ.), 12 cks.
Soda salicylate (N.Y.), 23 kgs.
Soda thiosulph. (N.Y.), 120 brls.
Tannic acid (Belg.), 20 pkgs.
Tartar, (Fr.) 208 bgs. 13 cks., (It.) 100 cks.
Tartaric acid (It.), 400 cks. 110 brls.
Zinc oxide, (Antw.) 100 brls., (Germ.) 32 cks.
Zinc sulphate (Swe.), 12 cks.
Cocoa butter (Holl.), 63 bls. 126 cs.
Drugs, crude, etc.: not described (N.Y.), 661 pkgs.; roots, 148 pkgs.; (Fr.), roots and leaves, 81 bls. 30 pkgs.; flowers (E.I.), 25 bgs.
Aloes (S'pore), 11 cks.
Arecia (Cey.), 128 pkgs.
Benzoin (S'pore), 60 cs.
Calumba (E. Af.), 1,377 bgs.
Camphor (Jp.), 832 cs.
Canagra root (N.Y.), 17 bls.
Cannabis indica (Cal.), 23 cs.
Cardamoms (E.I.), 62 cs.
Chaulmoogra oil (Cal.), 12 cs.
Cinchona (Jv.), 300 pkgs.
Cod-liver oil (Holl.), 100 cs.
Henbane (P. Said), 23 bgs.
Henna (P. Said), 12 bgs.
Insect powder (Fr.), 74 pkgs.
Kola, (Cey.) 22 bgs., (Jv.) 92 bgs.
Laurel-leaves (Fr.), 47 bls.
Lycopodium (Cal.), 13 cs.
Menthol (Jp.), 400 cs.
Nux vomica, (Fr.) 58 cs. 220 pkgs., (Cey.) 12 bgs.
Podophyllin (E.I.), 20 bls.
Rose water (Fr.), 53 drms. 12 pkgs.
Tamarinds (E.I.), 147 bds.
Turmeric (E.I.), 100 bgs.
Glucose (U.S.), 129 brls.
Gums, resins, etc.: not described (Fr.) 6 pkgs.; acacia (E.I.), 676 bgs.; copal (Amst.), 157 pkgs. 161 cs.; damar (S'pore), 62 pkgs.; karaya (E.I.), 232 bgs.; lac: button (Cal.), 25 cs.; shell, (N.Y.) 49 bgs., (Cal.) 252 bgs. 400 cs.; resin, (Fr.) 200 cks., (U.S.) 4,070 brls.; traga-canth (E.I.), 311 bgs.
Lanolin (N.Y.), 30 brls.
Mercury (It.), 280 cyl.

Oils, essential, (Fr.) 24 cs., (Holl.) 11 drms.
Bergamot (It.), 50 cs.
Birch (U.S.), 5 cs.
Cade (Sp.), 3 cks.
Cananga (Jv.), 5 drms.
Cassia (Jp.), 50 cs.
Citronella, (Jv.) 54 drms., (Holl.) 4 cs.
Coriander (Holl.), 1 cs.
Gingergrass (E.I.), 1 pot.
Lavender (Sp.), 3 drms.
Lemon (It.), 193 cs.
Mint (Jp.), 400 cs.
Orange (Sp.), 4 cs.
Origanum (Gre.), 7 cs.
Palmarosa (E.I.), 1 pot.
Petitgrain (S. Amer.), 8 cs.
Rosemary, (Sp.) 4 drms., (It.) 7 cs.
Sandalwood, (E.I.) 180 cs., (U.S.) 5 cs.
Turpentine, (Fr.) 920 cks. 130 brls., (U.S.) 2,862 brls.
Oils, fixed: Olive (Fr.), 72 pkgs. 95 cs.; soya, (Holl.) 1,000 cs., (Jp.) 3,000 cs.; tea (Ch.), 1,000 cs.
Petroleum jelly (U.S.), 848 brls.
Seeds: Anise (Fr.), 5 cs.; canary, (Holl.) 200 bgs., (S. Amer.) 2,034 bgs.; castor (E. Af.), 405 bgs.; fennel (Fr.), 45 bls.; groundnuts (Aust.), 1,262 tons.
Soy (Jp.), 30 cks.
Spices: Chillies (E. Af.), 32 bgs.; cinnamon (Cey.), 70 bls.; ginger (E.I.), 150 pkgs.; pepper (E.I.), 50 bgs.
Vanilla (Fr.), 27 cs.
Waxes: Bees' (Cal.) 38 cs., (E. Af.) 114 blocks 120 bgs. 338 bds.; paraffin, (U.S.) 4,332 bgs. 2,212 brls., (scale) 620 brls., (E.I.) 1,927 bgs.

Liverpool

(June 7 to 12).

Chemical products, etc.:
Argol (Sic.), 152 bgs.
Barytes (Sp.), 942 brls. 1,000 sks.
Betanaphthol (Holl.), 10 cks.
Bismuth ore (Ch.), 47 bgs.
Bromide, potash (Antw.), 5 cs.
Citric acid (Gre.) 40 brls.
Glycerin (Sp.), 270 drms.
Phenol (U.S.), 62 drms.
Phosphorus (Can.), 500 cs.
Potash salts: chlorate (U.S.), 1,334 drms.; chloride (Antw.), 1,292 bgs.
Soda acet. (Fr.), 50 bgs.
Soda caustic (U.S.), 858 drms.
Soda nitr. (Chile), 33,190 bgs.
Soda thiosulphate (Fr.), 295 cks.
Sulphur (Sic.), 1,315 bgs. 100 cks.
Tartar, (Fr.) 733 bgs. 297 cks., (Sp.) 144 brls.
Drugs, crude, etc.: Leaves (Trieste), 16 bls.; roots (Parnahyba), 327 pkgs.
Calabar beans (W. Af.), 43 bgs.
Cinchona (S. Amer.), 24 bls.
Coca (S. Amer.), 39 bls.
Cod-liver oil, (Cey.) 18 hds., (St. John's) 119 cks.
Cuttlefish (E.I.), 130 bls.
Hellebore (Trieste), 14 bls.
Insect flowers (Trieste), 6 bls.
Insect powder (Trieste), 14 kgs.
Jaborandi (S. Amer.), 40 bgs. 586 bls.
Liquorice juice (Sic.), 120 cs.
Liquorice root (Sic.), 40 bgs.
Quillaia (S. Amer.), 877 bls.
Tuba root (S'pore), 155 bls.
Gums, resins, etc.: Acacia (P. Sudan), 1,075 bgs.; copal (W. Af.), 2,520 pkgs.; damar (S'pore) 825 cs.; gambier (S'pore), 50 cs.; lac: stick (S'pore), 84 cs.; resin (Fr.), 161 cks.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Pharmaceutical Book-plates.

SIR,—Your interesting article (*C. & D.*, June 26, p. 184) has caused me to look up some of my book-plates, with the result that I must confirm the outcome of your own experience—namely, that pharmaceutical book-plates are very rare. I possess only one by a living pharmacist. In books I have two others which, however, are merely name labels. One is "Joseph Severs," of Kendal; it is in a copy of Pernet's "History of Drugs." The second may equally well be that of a medical man; it is "Samuel Davies, 12 Bridge Street Row, Chester," and is in a copy of Phillips's "Experimental Examination of the last edition of the Pharmacopœia Londinensis." Among my books are many which should have had much interest for pharmacists, but there are scarcely any which bear traces of having been owned by pharmacists. In a copy of Tournefort's "Institutiones Rei Herbariæ" I have an *ex-libris* worthy of a place beside those you have reproduced; it is that of Lavoisier. Beneath the shield, with an armorial blazon and having supporters of lions (which are scarcely displayed in heraldic fashion), is a tablet inscribed: "*De la Bibliothèque de M. Lavoisier de l'Académie Royale des Sciences, Régisseur des Poudres et Salpêtres de France, 1^{er} Général du Roy.*" It was as controller of gunpowder and saltpetre that Lavoisier was enabled to diminish the vexatious proceedings which were entailed by the seeking for saltpetre in cellars and other premises to which the saltpetremen had the right of entry. This herbal also belonged to "R. Noalet fils au Jardin des Plantes," and it bears on its title-page the autograph of J. Decaisne.

Manchester.

Yours faithfully,

WILLIAM KIRKEY.

The Commerce of Cinchona and Quinine.

SIR,—Referring to your article on this subject in last week's *C. & D.* (p. 193), when the author states that "at no time has the production of cinchona in South America been so great as to have an appreciative influence on the world's markets for quinine," he overlooks the fact that, until cinchona was transplanted from South America to other countries, the former, as the only source of cinchona, naturally dominated the world's markets for bark and quinine altogether. Again, when he remarks that "Ceylon has meanwhile toyed with cinchona," he seems to be unaware that by the year 1886 that island exported 15½ million lb. of bark (*i.e.*, as much as Java during several years previous to the war and again later, the quinine value being, of course, higher in the case of Java) and that the Ceylon planters would not have found the cultivation of tea and rubber more profitable but for the rapid advance and success of cinchona-growing in Java, which, favoured by climatic conditions and scientific methods, finally killed the Ceylon enterprise. Ceylon certainly did more than "toy" with cinchona. Mr. Abrahamson's competence in cinchona matters is undisputed; yet there were (and are) in London several other well-informed persons who were able to, and did, during the war give the authorities such precise root-and-branch information as enabled the British and Allied Governments to reach important decisions in regard to a cinchona and quinine policy.

40 Mincing Lane, E.C. 3.

Faithfully yours,

W. BREDT.

British Synthetic Perfumes.

SIR,—In reference to the article on synthetic perfumes in "The Times Trade Supplement," referred to in your last issue, I would like to supplement your remarks by drawing attention to the fact that quite considerable quantities

of vanillin and ionone are being made in this country, and domestic supplies, of vanillin at all events, are getting within measurable distance of the consumption. It is, however, the case that a proportion of the oil of cloves distilled here is exported and converted into vanillin on the Continent, and it would be of advantage if we did the conversion at home and sent the manufactured vanillin abroad. It is also true that considerable improvement has taken place in the quality of home-made benzaldehyde recently. The great desideratum is to see this country manufacture such bodies as the higher fatty aldehydes, bromstyrol, phenylacetaldehyde, indol, etc., etc. When we are doing this on a reasonable scale the success of the synthetic perfume industry should be an example to be followed by other branches of chemical industry, so that Great Britain might take its proper place among the countries manufacturing fine organic substances.

Yours faithfully,

ERNEST J. PARRY.

56A Great Dover Street, S.E. 1.

The Lure of the Orient.

SIR,—I was much interested in reading Mr. Saunders's letter (*C. & D.*, June 5, p. 91), and also "Pre-War Colonial's" remarks (*C. & D.*, June 26, p. 208). As Mr. Saunders's remarks apply to Singapore jobs, as well as other Eastern places, may I, who have had twenty-eight years' experience there, make a few remarks? I am more than surprised at the number of "ads." from the Straits Settlements in your paper remaining standing for so long, and think it is the want of knowing something of the conditions existing out there. The climate is certainly a warm one, but after a few months one soon gets accustomed to it and, like everything else, barring hanging, can put up with it. The hours are ideal, 9 to 5, with an hour off for lunch or tiffin, and 9 to 3 on Saturdays and 11 to 1 on Sundays. Where can you get better? The work, too, is not very strenuous. As regards the salaries offered in these days, any young man with his head screwed on the right way can live well, pay his way, and save money, even on his first agreement. If he puts his back into it and shows his worth, he is sure of a substantial rise in his second agreement, and so forth. I think "Pre-War Colonial" is wrong in his statement about holidays swamping savings. Any firm I know of in Singapore or the F.M.S. either pay passage home and out and half-salary, or you can pay your own passage and get full pay, when on leave. This is a big difference, and a man at home on full pay can get on well, even in these strenuous times. I have always been a strong advocate of plenty of exercise for keeping one fit in the tropics. During my time I indulged in football, tennis, hockey, golf, lawn-bowls, etc., and kept myself fit all the time. Where is the assistant at a home job who has time for indulging in these? If anyone proposing going to the Straits Settlements wishes any information regarding jobs out there I shall be very pleased to inform him concerning any points he is in doubt about.

Yours faithfully,

15 Glebe Road, Kilmarnock.

JAMES MCKENZIE.

Assistants in India.

SIR,—For the sake of any chemists in the Old Country who are thinking of coming to India to join drug firms in that country, may we make use of your columns in order to state precisely what they may expect, and to warn them to consider things very carefully before they sign contracts for service in India? In the first place, a chemist in India, be he qualified or not, is a victim of the caste system, in that he is called a "tradesman"—a term of opprobrium in India—and would be black-balled were he to apply for membership of any decent club. He finds that, although in England his profession is looked upon as such, and he is expected to, and does mix, socially with a good class of people, here in India he is forced to find his friends among people who at home would be classed as artisans—worthy people no doubt, but not at all of the social standing that a chemist is given as his due in England. There is a hard-and-fast line between "Trades" and "Mercantile" here, over which it is impossible to step. In the matter of

expenses, perhaps it would be well to enumerate some of these in detail, as the average man in England does not know anything of the system of living in, say, Calcutta.

	Rs.
Average board and lodging (per month) ...	250
Boy (servant) ...	20
Dhobie (washerman) ...	10
White suits ...	80
Thin cloth suits ...	150
Cigarettes (average Virginian) (per tin of 50) ...	1.12
A seat at a cinema ...	3
A small whisky ...	0.12

and there are many other incidental every-day expenses, such as travelling, etc., which have no comparison with similar expenses in England. Taking the present exchange into consideration, anyone can appreciate the fact that living expenses in India are enormous. For a married man, or one who wishes to have his own flat, one month's expenses would probably be somewhere about Rs. 600. Rents are almost prohibitive. A landlord recently replied to a request for information in regard to the rent of an ordinary four-room unfurnished flat in the European quarter of Calcutta that it was Rs. 550 per month. This will interest you, in that in many cases advertisements have appeared in the "Coloured Supplement" for chemists' assistants to go East on salaries ranging from Rs. 200 to Rs. 400 per month. No man should think of signing a contract for service in the East at a starting salary of less than Rs. 500 per month for a single man or Rs. 750 per month for one with dependents. A man does not leave home and friends and come out here to sweat his soul out for merely a living wage—he comes to save money—but unless he starts at Rs. 500 or over it will be years before he can begin saving at all; and a man cannot last very long in the tropics. Then, again, a chemist's hours are far too long in India. One firm in Calcutta makes its assistants work from 8 A.M. to 5.30 P.M., with half an hour for tiffin, summer and winter, and putting in nine hours per day with the temperature at 103° in the shade soon breaks up a man's constitution. Anyone coming out here should demand at least Rs. 500 per month to start with (provided he is single), a hard-and-fast arrangement as to hours—say 10 A.M. to 5 P.M. (the hours of every mercantile firm)—a definite arrangement as to holidays, and a complete understanding as to night duty. He should utterly refuse to sign a contract unless it contains as many safeguards for himself as it does for his employers. Most of these contracts are, so far as we know, entirely on the side of the employer, and no matter what may be told a man in England to the contrary, these penalties, etc., are imposed just as soon as it suits a firm's convenience. The only safe way is to show the proposed contract to a lawyer, and study the possibilities. Agents who get men for this country paint work in India in rosy colours, and men come out here dreaming of huge salaries, afternoon naps, salaaming natives, and a tremendous social position, and only wake up to the grave nature of the mistake they have made when they are here and find themselves completely in the power of some firm, and mere dividend-makers for someone outside of themselves—sweated labour. If a man looks before he leaps, and follows our advice—and we have many bitter years of experience in the matter—he may come out here and make good, not only for his employers but for himself, provided he is willing to consider himself on an equal footing with the ironmonger, the haberdasher, and the foreman bricklayer.

Yours sincerely,
VICTIMS. (8/1.)

The Industrial Problem.

SIR,—The article on the "Industrial Problem in the Drug-trade" (*C. & D.*, June 26, p. 141) is a comprehensive review of the wages question, and shows that we have still a long way to go to leave the poverty line at a safe distance. The hardest and truest fact in the article is that on p. 145, which states that "chemists in the past have depreciated their own market." When we look back to pre-war days and remember that trained and qualified pharmacists, claiming to be professional

men, so valued their skill and responsibility that they supplied their drugs, bottles, and services at an average charge of 9d. or 10d. for mixtures, or 6d. a dozen for pills; it is quite easy to see that the habit of thinking in halfpennies has become fairly rooted in their minds, and to-day they stand aghast at the economic charges for these preparations and cannot bring themselves to demand such prices. As, therefore, the wholesaler has no foolish compunction about demanding the current value for drugs, and seeing that he is paid for them, the retailer cuts the price of the only commodity he can, and that is labour. This self-depreciation has had one notable result in Insurance dispensing terms, where the Commissioners pay the retailer for drugs at cost price; but note that these prices are fixed by the wholesalers themselves and the authorities have not attempted to cut their profit. Your contributor has mentioned the dockers' figure for the lowest possible wage as 2s. an hour; if, therefore, a qualified chemist worked fifty-five hours a week, he would at this rate draw 5l. 10s., a sum which I still venture to assert is rarely paid even to-day, except by a few company shops or in very rare cases in private businesses. Applied to dispensing work, by doing six prescriptions an hour, which has been accepted as a fair all-round rate of work, the professional skill is valued at 4d. a script, a sum which a porter or a waiter would openly sneer at as a tip. No wonder the pharmacist employer begins to look scared when qualified men talk of 7l. and 8l. weekly, but there is another factor shortly to be introduced into the cost of living which will make such figures imperative. I refer to the new Rent Act. Although we talk of the cost of living having risen 150 per cent., it is well to remember that this refers entirely to food and clothing, and it is the fact that rents have been restricted that has saved many wage-earners' families from hopeless collapse; but the new Bill allows an increase eventually up to 40 per cent., and coupled with the speedy advance in rates, in many districts approximately 20s. in the pound, a wage of 2s. an hour will soon be found to be totally inadequate to the task of meeting this further burden. Your contributor's suggested scale of profits is one which should be adopted by all proprietors and could be effected through the local associations; the single-handed man who refused to come in should be ignored, just as the hawker and cheap-jack who crops up with protected lines at cut rates is ignored, but it would probably be found in practice that the majority would be only too glad to get the increased profits.

Yours faithfully,
GREAT UNDERPAID. (26/6.)

Wages in the Drug-trade.

SIR,—Allow me to state that 3l. 10s. to 4l. is accepted by unqualified assistants in the South of England because they might as well ask for the moon as ask for a higher wage. Nevertheless, we think it is a wage undermining the high principles of the followers of the profession. The reason is as follows. The charge for a prescription is, cost of drugs 1s. 2d. plus 33½ per cent. = 1s. 9d., plus bottle 3d. = 2s. Often this is all that is charged, no dispensing-fee on the ground that the assistants' wages are already paid for, sometimes 6d. dispensing-fee is added, making a total of 2s. 6d. The total cost is 1s. 2d., plus 5d. bottle and 6d. time. Therefore the lowest cost is 2s. 1d., and a reasonable price would be 4s. 3d. If this amount was charged, the employer could pay twice the present wages to his assistant and have twice as much income for himself. Some employers will argue that they would lose customers. To that I say, "Better lose all customers at no profit." On the other hand, in the South of England in one year I have doubled the number of prescriptions and trebled the takings at these increased and reasonable prices. I may say that my employer places the dispensing entirely in my hands, trusting me to carry on in a thoroughly conscientious manner. If every assistant realised his value and persisted in demanding it, in a few years we should be getting paid accordingly, and I maintain that we are entitled to an income commensurate with that of the highest-paid professions.

Yours faithfully,
O. D. (30/6.)

Subscribers' Symposium.

Pulv. Batavier.

M. R. (14/6) asks for information regarding pulv. Batavier, stated to be prescribed at a school of tropical medicine.

Appreciation.

I fancy your mail-bag will this week be filled with letters of congratulation on the first post-war "C. & D. Special." We all expect much from such a production, but our expectations were far surpassed in the realisation. It is a mine of mental health, wealth, and prosperity, and the articles are so varied and interesting. There is one article of particular interest at present, from employer and employé's point of view—i.e. the article on "Industrial Problems in the Drug Trade." The writer of this article is indeed an expert, and his handling of the problems is a literary and business treat. He exhibits a fine balance in his arguments; and, given a few of his calibre to represent employers and employés at a "round-table conference," the problems of the drug-trade should be amicably and expeditiously settled.—F. (28/6).

Legal Queries.

H. L. (26/6) ordered a quantity of bottles from a firm early in March last, for which he paid cash against a *pro-forma* invoice. The firm at that time consisted of two partners, but there has since been a change in the firm, the place of one of the original partners having been taken by a new partner. The goods have not been delivered, and the new firm refuses to deliver them or to refund the money paid by "H. L." What remedy is open to him? ["H. L.'s" only remedy appears to be to take legal proceedings in the County Court against the two original members of the firm.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

E. W. (23/6).—UMCKALOABO TABLETS, recommended by a medical man for a consumptive patient, is one form of the Stevens consumptive cure which was prominent some years ago on account of a libel action which Mr. C. H. Stevens brought against the British Medical Association for statements in a book the Association published regarding the remedy. The name Umckaloabo is that of a South African plant. Mr. E. M. Holmes, in the case referred to, gave evidence regarding the identity of the plants used in the remedy.

W. & Co. (28/6).—BOOKS ON WOOD-DISTILLATION.—The chief work on wood-distillation is Dumesny & Noyer's "Wood Products: Distillates and Extracts," published by Scott, Greenwood & Co. at 10s. 6d. The article in vol. 5 of Thorpe's "Dictionary of Applied Chemistry" is excellent in the way it summarises the practice, but the engineering side naturally depends upon the plant installed at the works.

C. W. J. (28/6).—"COMPACT" TOILET-POWDERS are made by incorporating with the ordinary powders sufficient of a weak mucilage of tragacanth to give the powders a moist feel and then compressing.

H. B. R. (11/6).—The twigs of a plant suspected to be poisonous belong to a Californian tree cultivated in this country, known to botanists as *Wellingtonia gigantea* or *Sequoia gigantea*. There is not, so far as we are aware, any recorded instance of cattle-poisoning by this tree, but Lander ("Veterinary Toxicology," 1912, p. 149) remarks that it and some other coniferous plants must be held to be liable to cause poisoning in cattle.

R. J. A. (1/6).—PRICE OF MIXTURE.—The charge of 4s. 6d. for the prescription which has been made is too low. The Insurance Tariff allows the sum of 4s. 4d. for the ingredients alone, and you charge 4s. 6d. The sale price on a 50-per-cent. basis is 9s. This amount being over 5s., it is usual to deduct 10 per cent. quantity discount, which brings the amount to 8s. 2d. *plus* the dispensing-fee 9d. = 8s. 11d., in round figures 9s., double what you charged. Priced out by the London Chemists' Retail Price List, the prescription is as follows:—

	s. d.
Syr. scillæ	1 0
Syr. marrub.	1 9
Syr. rhei	1 9
Vin. ipecac.	2 3
Spt. ether nit. aa. ʒiii. ...	2 3
	9 0

Less 10 per cent. quantity, 8s. 2d.; *plus* dispensing, 9d.; container extra.

J. G. (29/6).—TURPENTINE SUBSTITUTES.—The following are representative formulas:

1.	3.
White petroleum 5 gals.	Rosin spirit,
Rosin spirit ... 2 pints	Petroleum,
Benzine ... 2½ gals.	Coal-tar naphtha,
Turpentine ... 10 gals.	Turpentine equal parts
2.	4.
Rosin spirit ... ½ gal.	Benzine ... 2 pints
Benzoline ... ½ gal.	Petroleum ... 25 oz.
Turpentine ... 1 gal.	Turpentine ... 15 oz.

S. J. W. (81/3).—PRICE OF PRESCRIPTIONS.—By the London Chemists' Price List the charge for the prescriptions you send would be 3s. 2d. and 5s. 6d., as follows:

I.	d.
Syr. glycer. c. format B.P.C. ʒj.	9
Elixir lactopept. ... ʒij.	12
Aq. chlorof. ad ... ʒviij.	4
Container ...	4
Disp.-fee ...	9
	38d.

[The elixir lactopept. priced is Armour's; any other would be according to cost.]

II.	d.
Menthol ... ʒiss.	27
Lin. bellad. ... ʒvj.	7
Lin. chlorof. ad ... ʒij.	20
Container ...	3
Disp.-fee ...	9
	66d.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1870.

Dispensing Counter Prize.

We briefly announced last month that we intended to offer a prize for the best design that should be sent us for a dispensing counter, the competition to be open to all comers. We promised then to give further particulars and conditions in this impression, which we now proceed to do. First of all, however, we have much pleasure in assuring all intending competitors that they may entrust their ideas to us with the utmost confidence that the best will win; and we guarantee that assurance by mentioning the names of the gentlemen who have kindly consented, in the midst of many other avocations, to act as judges in this matter, and to whom all designs sent in will be submitted. These are, Mr. T. H. Hills, Mr. Joseph Ince, and Mr. C. H. Savory. No word of ours is necessary to call attention to the fact that in this trio we have as perfect a representation of gentlemen who know what practical dispensing is, as it would be possible to obtain, but we cannot avoid the expression of our thanks to each for the readiness with which, in each case, our invitation was accepted.



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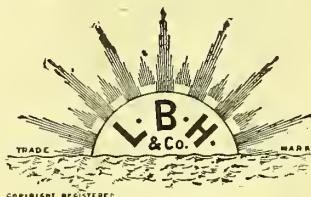
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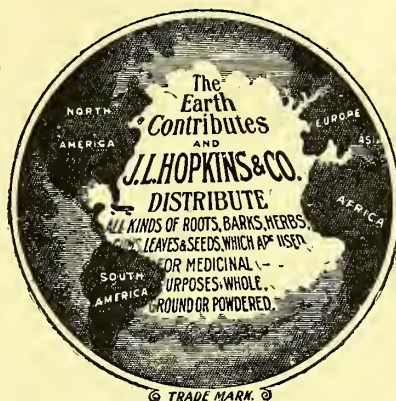
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Acetamidosalol (Salophene)	Cacodylates	Formates	Quassine
Acid Acetylsalicylic (Aspirin)	Cantharidin	Guaiacol. cryst. and liq.	Salicylate of Bismuth
Acid Benzoic	Carbonate of Bismuth	Glycerophosphates	Salicylate of Methyl
Acid Diethylbarbituric or	Carbonate of Creosote	Hydrastinine	Salicylate of Naphthol
Barbitone (Veronal)	Carbonate of Guaiaacol	Hyosciamine	Salicylate of Soda
Amido-Antipyrin	Citrate of Iron	Iodogallate of Bismuth	Salicylate of Soda and
(Pyramidon)	Cocaine and Salts	(Airol)	Theobromine
Analgesine (Antipyrin)	Codeine and Salts	Lecithin	Sparteine and Salts
Argent Colloidal (Collargol)	Colchicine	Lithia and Salts	Sulphoguaiaacolate of Potash
Atropine and Salts	Diacetylmorphine Chte.	Methylarsenates	Diethylsulfonedimethyl-
Benzoate of Soda	(Heroine)	Methylsulfonal (Trional)	methane (Sulfonal)
Benzo-Naphthol	Diactyltannin (Tannigene)	Nucleinate of Silver	Terpine
Bi-Phosphates	Digitaline	(Argyrol)	Theobromine
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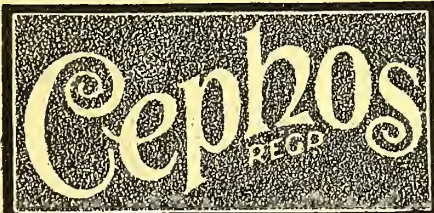
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dissolve immediately and the
drug is set free at once.For NEURALGIA, HEADACHE,
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CEPHOS LTD., Blackburn, Lancs.

**D.D.D.
Prescription****FOR ALL SKIN & SCALP DISEASES**A well-advertised, high-grade preparation, enjoying
a steadily increasing sale. On the P.A.T.A. pro-
tected list, giving the retailer a profit of about 25%**TRADE PRICES.**

D.D.D. Prescription	3/- bottle, M.R.P. Face Value,	per doz.
"	5/- " " " "	@ 27/-
"	" " " "	" 47/-

In two strengths Ordinary and Strong.

D.D.D. Soap	1/3 tab. M.R.P. Face Value,	per doz.
" Shaving Soap	1/6 stick " " " "	@ 10/-
" Vanishing Cream	2/6 jar " " " "	13/6
" Shampoo Powders	2/6 box " " " "	22/6

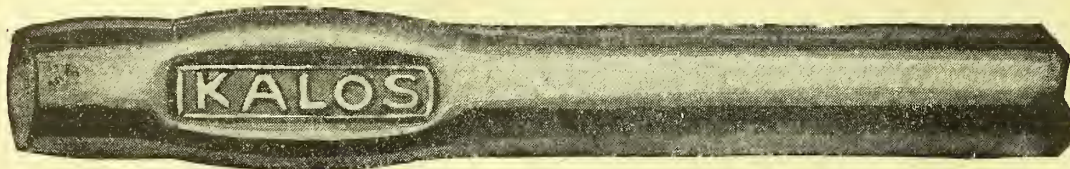
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Samples taken from shipments of this Juice have been examined and analysed by the well-known Analytical and Consulting Chemist,

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ABSOLUTELY PURE LIQUORICE JUICE OF HIGH GRADE.

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P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

July 3, 1920.

The following revised prices are
now in force:

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
2/3 Browning's Oxygenated Tooth Powder ...	2/3	20/- doz.
4/- " Pilm Emulsion...	4/-	36/-
1/4 Oppenheimer's Maglactis ...	1/4	12/6
1/ " " " ...	1/9	16/-
3/9 Thompson & Capper's Dentifrice Water	3/9	33/9
6/9 " " " ...	6/9	60/9
12/6 " " " ...	12/6	112/6
23/6 " " " ...	23/6	211/6

SPECIAL NOTICE.

Gibb's Superfatted Coal Tar Soap.

Through an error this preparation is quoted on page 163 of the June "Anti-Cutting Record" as Superfatted Cold Cream Soap. The prices of Superfatted **Coal Tar** Soap are 7d. tab., M.R.P. and 57/- gross, M.W.P.

BRITISH Saccharin Tablets

Full Strength, 0.3 gr., 550, Saccharin, in each.

Card Boxes ...	100's, 8/-	200's, 16/-	500's, 40/-	Per lb., 45/-
Aspirin Tablets, gr. v., per 1,000	6/-	per lb., 8/-	in card boxes—	
25's, 3/9	50's, 7/-	100's, bottles, 14/-	doz., in bottles, 25's	4/9; 50's, 8/6.
Cascara Tablets, gr. ii, pearl-coated, per 1,000	5/-	in card boxes—		
25's, 2/-	50's, 3/9	100's 6/9	per doz. In bottles, 25's, 3/-	50's, 5/-; 100's, 8/6 per doz.
Formalin Tablets, contains 1-gr. Paraformaldehyde, per lb.	3/-	in screw-cap bottles, 50's, 7/6	per doz.	
Bismuthated Magnesia Tablets, per lb.	3/3	in screw-cap bottles, 50's,	8/- per doz.	
Pine Tablets, 2/3 per lb.	2-oz. cartons, 3/9	doz.		
Sulphur Tablets with Cream of Tartar, 2/-	per lb.			
Indigestion Tablets (Heart shape) 2/6	lb., 2-oz. cartons, 4/9	doz.		
Boat-Shape Feeding Bottles, each in box, complete with transparent				
teat and valve, 10/-	per doz.			
Paper, Double Demy, 22½ x 35, 24/-	per ream.			
" Nature Brown Cap, 18 x 28, 7/-	per ream.			
Aspirin	P.B. 7/6 lb.			
Acid Tartaric	Pulv. or Xtal. P.B. 4/3			
Cream of Tartar 99% P.B.	3/-			
Acid Citric	P.B. 6/-			
Magnes. Carb. Pond. P.B.	1/3			
" " " " " " " "	1/-			
" " " " " " " "	3d.			
Naphthaline Marbles	P.B. 2/6			
Magnes. Calc. Leviss P.B.	2/6			
Gum Acacia, Powd. Elect. 3/6	lb., Sorts			
" " " " " " " "	18/- lb.			
Sod. Brom. Howards' 5/-	lb., Ammon. Brom. Howards' 5/-			
Bismuth Carb., Howards' light	18/- lb.			
Pot. Brom., Howards' 4/9	lb.			
Pot. Iodid., Howards' 18/-	lb.			

£5 value, exclusive of Saccharin tablets. Carriage Paid.
Cash with order. Postage charged on Saccharin tablets.
Packages Charged.

C. W. HARPER,
254 Stockport Road, Manchester.

Compressed Tablets, Fine & Heavy Chemicals, Druggists' Sundries,
Glass Bottles.

ASPIRIN TABLETS

(GRAIN 5)

In s/c bottles of

25 at 4/6 per doz. bottles.

50 at 7/6 per doz. bottles.

100 at 13/3 per doz. bottles.

In bulk at 7/3 per 1000.

Terms: NET, without engagement, carriage paid.

Customer's name and address on orders
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CHEMICALS & BY-PRODUCTS, LTD.

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We have made and sold over a million gr. v.
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on turning out the best Aspirin Tablet on
the market.

6/- per 1000, net cash with order.

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3 gr. 550 in 1 gr. tablet.

Standardised and guaranteed as to strength.

In Bottles, or Damp-proof Envelopes of
100s, 200s and 500s and in Bulk.

Special quotations for quantities.

*All drugs are tested, and tablets made in our own
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Manufacturing Chemists,

WILKINSON LANE, SHEFFIELD.

SACCHARIN TABLETS

Made from British Saccharin each guaranteed to contain
3-gr. 330 in 1, 7000 to the lb.

1 lb. 47/- 7 lb. @ 46/- 14 lb. @ 45/-

In envelopes each containing 100 @ 9/- doz., 106/- gross.

Prompt Delivery.

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Carriage paid.

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New English Medicinal Herbs, Roots & Flowers.

Agrimony, Avens, Bittersweet, Belladonna,
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Colchicum Leaves and Corms, Dandelion
Herb, Fumitory, Ground Ivy, Meadow-
sweet, Mugwort, Nettles, Ragwort,
Shepherd's Purse, Digitalis, Wild Carrot,
Wood Betony, Yarrow, Yellow Dock,
White Bryony, etc.

For full list, prices and particulars, apply—

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WHOLESALE TRADE ONLY.

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For GREEN EXTRACTS and DRIED HERBS
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ACID SULPHURIC PUR. B.P. Carboys at 5½d. per lb.
 ACID SULPHURIC PUR. (for analysis). Winchester
 at 9d. lb.
 ACID SULPHURIC "OLEUM" (20%) Winchester at 9d. lb.
 ACID NITRIC PUR. Carboys at 8d. per lb.
 ACID NITRIC COML. Carboys at 5½d. lb.
 ACID NITRIC "FUMING." Winchester at 1/3 lb.
 ACID HYDROCHLOR. PUR. Winchester at 5½d. lb.
 ACID SULPHUROUS B.P. Winchester at 3½d. lb.
 ACID ACETIC GLACIAL 95% Winchester at 1/- lb.
 ZINC GRANULATED (arsenic 1 in 10 millions) 2/- per lb.
 POT. NIT. PULV. (Refined 99½%) 75/- 1 cwt.; 5 cwt. at 70/-
 1 ton at 69/-
 OL. EUCALYPT. B.P. 1 lb. 3/9, Wr. 3/6, Cases 3/-
 LICORICE. 2 oz. sticks, 7 lb. at 4/6, 14 lb. at 4/3, 1 cwt.
 cases at 4/-
 OL. LIMONIS. OPT. 8/6 lb. in 1 lb. bots.
 OL. ANISI. B.P. 7/- lb. orig. Lead at 6/6.
 SAFROL. 7/6 lb., 7 lb. at 7/3 (in 1 lb. bots.)
 ACID TART. PULV. B.P. 4/3 lb., 1 cwt. at 4/- 5 cwt.
 at 3/11.
 GUM JUNIPER. 2/6 lb., 14 lbs. at 2/3.
 CURRIE POWDER, Finest, 1/6 lb., 7 lb. at 1/4, 1 cwt. at 1/2
 SUGAR OF MILK. 2/6 lb., 7 lb. at 2/4.
 FLAVOURING ESSENCES, assorted, 1 oz. at 9/6 doz., 2 oz.
 at 16/6 doz.
 GROUND MACE, good, 1/11 lb., 14 lb. at 1/10.
 GROUND CLOVES. 2/2 lb., 14 lb. at 2/1.
 ARROWROOT. 9½d. lb., 14 lb. at 9d.
 GROUND GINGER. 9½d. lb., 14 lb. at 9d.

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Offices: 34 LEADENHALL STREET.

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Goods carriage forward; all packages free; Export cases extra.A. Acetanilide, B.P., 1 lb. @ 5/2 lb.; 7 lbs. @ 5/-
lb.; powder, 1d. lb. extra.Ammon. Carb. lump, 3 cwt. at 9d. lb.; 28 lbs.
@ 10½d. lb.; 7 lbs. @ 11d. lb.; powder, ½d.
lb. extra.B. Ismuth, P.B., Carb., 3 lbs. @ 18/2 lb.; 1 lb.
@ 18/4 lb.; subnit., 3 lbs. @ 16/3 lb.; 1 lb.
@ 16/7 lb.Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 2/10 lb.;
10 lbs. @ 3/1 lb.

*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 3/5 lb.

" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 3/5 lb.

" Buchu Conc., 1 to 7, 6 lbs. @ 6/- lb.

" Calumba Conc., 1 to 7, 6 lbs. @ 1/11 lb.

" Caryoph. Conc., 1 to 7, 6 lbs. @ 2/2 lb.

" Cascarella Conc., 1 to 7, 6 lbs. @ 2/2 lb.

" Cinchona Acid, 1 to 7, 6 lbs. @ 3/10 lb.

" Rhei Conc., 1 to 7, 6 lbs. @ 5/- lb.

" Rosae Acid, 1 to 7, 6 lbs. @ 3/4 lb.

" Senega Conc., 1 to 7, 6 lbs. @ 7/2 lb.

" Valerian Conc., 1 to 7, 6 lbs. @ 2/11 lb.

Liq. Hamamelidis, B.P., 6 lbs. @ 2/6 lb.

" Hypophosph. Co., p.s., B.P.C., 1 lb. @

" Iodi Fort, B.P., 5 lbs. @ 8/8 lb. [6/6 lb.

" Morphina Acet. or Hydrochlor., P.B.,
16 lbs. @ 6/2 lb.

O. Eucalypt., P.B., 1 cwt. @ 2/11 lb.; 28 lbs. @

3/- lb.; 9 lbs. @ 3/3 lb.

Potass. Brom. P.B., 7 lbs. @ 4/3 lb.

Potass. Chlor. Pulv., 7 lbs. @ 1/6 lb.

Potass. Cit., B.P., 7 lbs. @ 3/- lb.

S. Sodii Salicyl. Pulv., 2 lbs. @ 4/8 lb.

" Spt. Ether Nit., P.B., 4½ lbs. @ 6/- lb.

" Ammon. Aromat., P.B., 5 lbs. @ 4/11 lb.

" Chlozoform, P.B., 5 lbs. @ 6/4 lb.

Syr. Scilla, P.B., 7 lbs. @ 1/6 lb.

" Senna, P.B., 7 lbs. @ 1/11 lb.

" Tolut, P.B., 7 lbs. @ 1/9 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester
Quarts assorted; Export, 12 Winchester Quarts assorted.
In comparing prices it must be borne in mind that bottles and
packages are free and not charged, but are credited if returned.**Guaranteed
SACCHARIN
TABLETS.**

Average over 7000 to pound.

Quantity.	½ grain 330.	½ grain 330.	¼ grain 330
1-lb.	47/-	35/-	28/- lb.
7-lb.	46/-	34/-	27/- "
14-lb.	45/-	33/-	26/- "
100's boxes	9/-	7/-	6/- doz.
200's "	16/6	13/6	11/- "

Less 6d. per doz. in gross lots.

**CASH WITH ORDER, POST PAID ON £2
VALUE; ORDERS LESS THAN £2 ADD
6d. FOR POSTAGE.***A full-signed guarantee will accompany
each order. We take the risk, you take
the profit.***WALTON, Chemist, BATLEY.****J. D. SACCHARIN TABLETS**

Contain 0.3 gr. 550 Saccharin in each.

J. D. SACCHARIN TABLETS

Rapidly dissolve.

J. D. SACCHARIN TABLETS

are free from insoluble matter.

J. D. SACCHARIN TABLETSCompete for quality. There is
not a better tablet on the market.**J. D. SACCHARIN TABLETS**

Full strength. 0.3 gr. 550 Saccharin in each.

Are offered in

Envelopes of 100 ... 10/- per doz.

Tins of 100 ... 11/- " "

Boxes of 200 ... 20/- " "

" 500 ... 46/- " "

Tins of 1,000 ... 90/- " "

In bulk ... 50/- per lb.

SOLE MANUFACTURERS:

JULES DENOUL & CO.

Carlton Works, Asylum Road, London, S.E.15.

Clarke's Blood Mixture.

WHOLESALE PRICES.

3/- size Clarke's Blood Mixture £1-7-0 per doz. £16-4-0 per gross net.
12/- „ „ „ „ £5-8-0 „ „ £64-16-0 „ „ net.

Orders : Minimum Quantity £16-4-0 Value

Carriage paid upon orders of £100.

MINIMUM RETAIL SELLING PRICES 3/- and 12/-

Above prices will give a Profit of 33 $\frac{1}{3}$ % on cost to the Distributors.

Sole Proprietors :

**THE LINCOLN & MIDLAND COUNTIES'
DRUG CO. LTD.,
PARK STREET, LINCOLN.**

LIQUID BARKOLA COMPOUND

**Wholesale 30/- per doz.,
Retail 3/- each.**

Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of
Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.;
Syrup of Ginger, 5 oz.

Chemists charge according to their own scale for dispensing

THE BARKOLA CO., LTD.,

42 Great Dover St., LONDON, S.E.1.

Proprietors of Barkola Alvexo, Barkola Balm, &c., &c.

Never be without



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The genuine remedy for
ECZEMA, CUTS, BRUISES, SORES, BURNS,
PILES, PIMPLES, BAD LEGS, SORES on
HEAD, CHAPPED HANDS and ALL SKIN
TROUBLES.

Liberal Terms to the Trade.

Apply to your Wholesaler or to

The "ZI-ZI" CO., Newmarket.

Advertising matter free on request.

ORILENE CAPSULES & CAZO TABLETS

are now being advertised in an extensive manner in Great Britain and the Colonies.

The Public will want them, and it is bad business to send a customer to a rival shop for anything.

The profit on the retail sale is worth having—and keep your customer.

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HEALTH SALT

Finest Quality in handsome Blue, Red and Gold Tins — 4-oz.

List Price — $8/6$ per Doz.

Special Offer—Present Stock only.

1 Gross, Carriage Paid, $8/3$ doz. — Prompt Cash.

5 " " " $8/-$ " " "

SALINES

The best Saline, in round white glass bottles, capped white skin, artistic blue-and-white labels.

UNLIMITED STOCKS.

4-oz. Bottles (Fluid Capacity)	- -	$10/6$ doz.
6 " " " "	- -	$13/9$ "
8 " " " "	- -	$17/9$ "

Name and Address free on 6-doz.

Carriage Paid - £5 orders.

Samples and Quotations for Larger Quantities on Application.

EVANS, GADD & CO. LTD.
BRISTOL ————— and ————— EXETER.

The
Secure
Sea Cure
Unfailing Remedy
for
Sea Sickness
Train Sickness
Flying Sickness

C.CURE LTD

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'C.CURE'

Cures Sea Sickness & Train Sickness

MANUFACTURED WHOLLY IN GREAT BRITAIN OF BRITISH INGREDIENTS.

PROTECTED PRICES OF 'C.CURE' packed in aluminium boxes enclosed in decorated cartons.

LARGE SIZE, 8/- per box. Contains capsules for Four Journeys.

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Each box contains twice the value of any other sea-sickness remedy.

DISCOUNTS TO CHEMISTS	25 %	Discount ...	For quantities up to Six Dozen.
	25 % & 10 %		For quantities over Six Dozen and under Twelve Dozen.
	25 % & 15 %		For quantities over Twelve Dozen.
	Special Extra Cash Discount 2½ %.		

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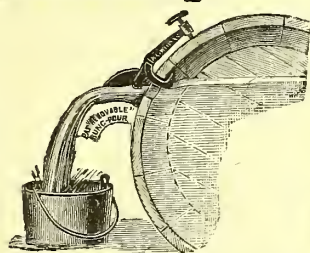
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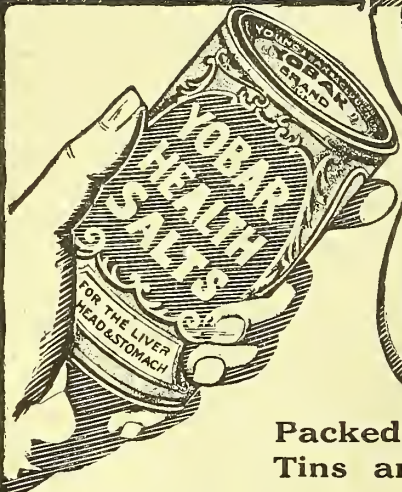
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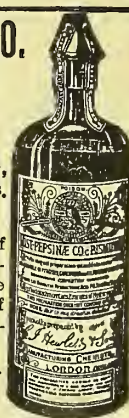
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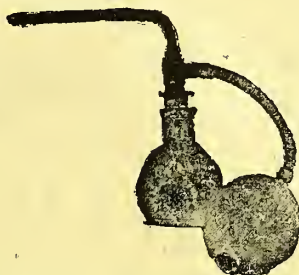
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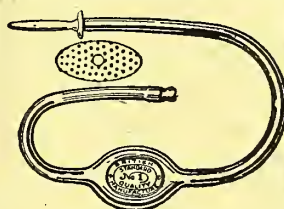
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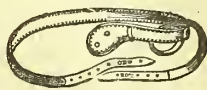
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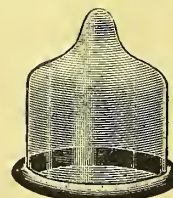
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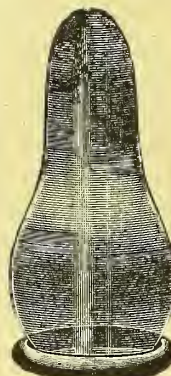
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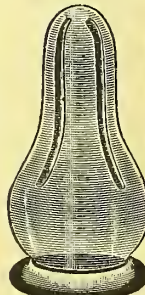
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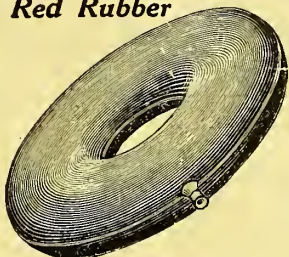
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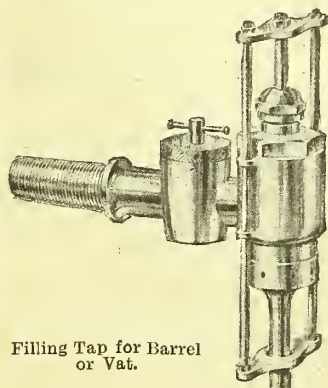
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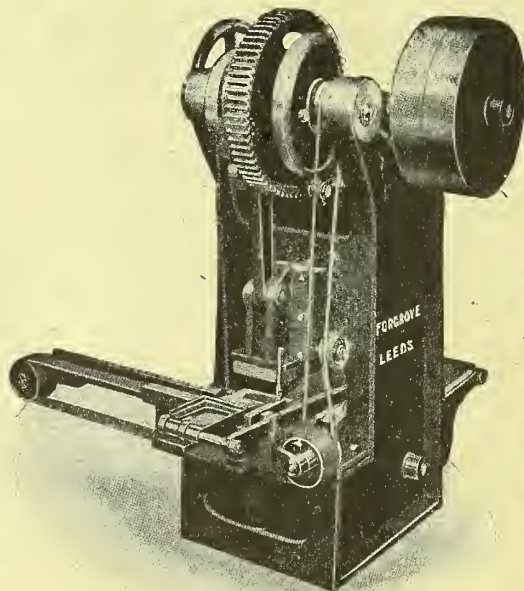
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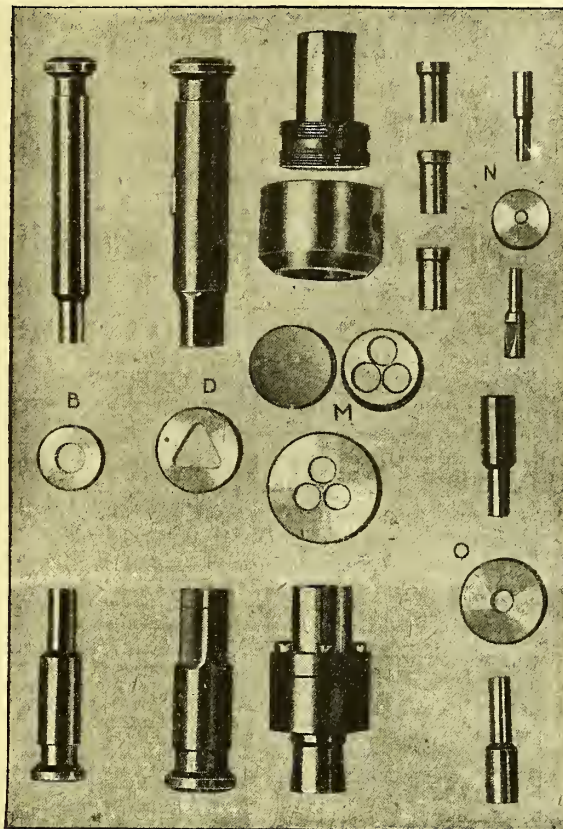
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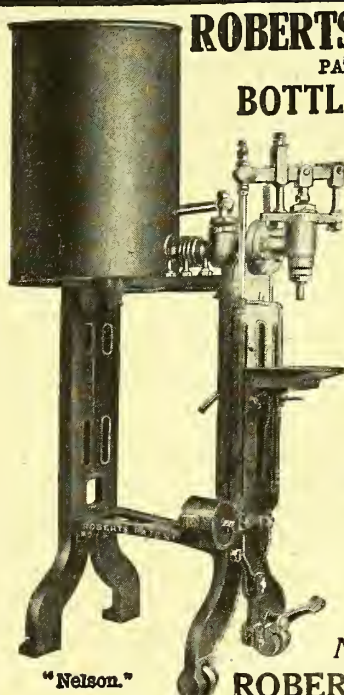
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Please Enquire for Quotation.

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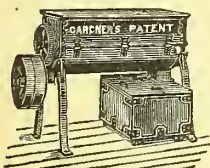
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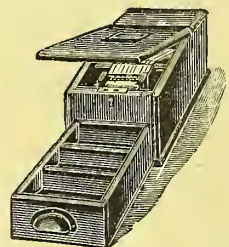
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Cash returned if you are not more
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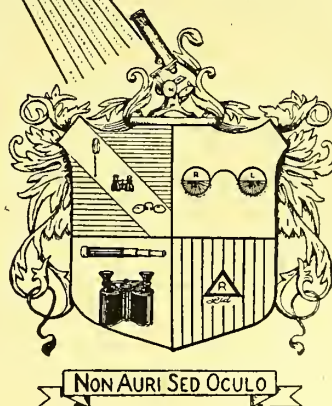
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DUDLEY & CO., 451 Holloway Road, N. 7.
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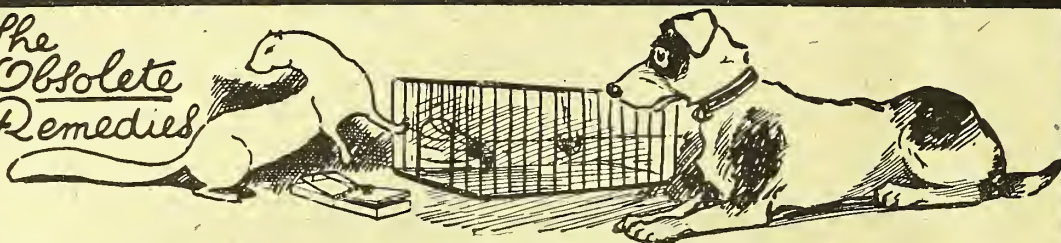


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BINOCULARS COMPASSES
ANTI-GLARE SPECTACLES & EYEGLASSES
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*The
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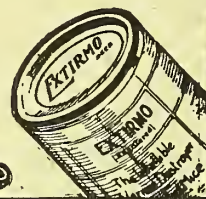


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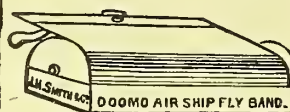
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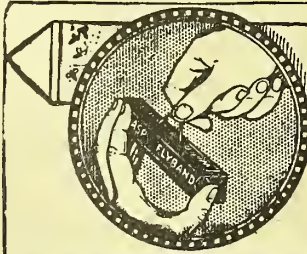
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**DAY'S BLACK DRINK**

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Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

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The Chest illustrated is similar to that at £5 and £2 4s.

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For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

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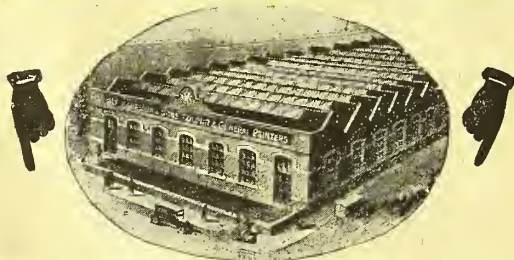
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GIVING YOU A PROFIT OF OVER **35 %**,
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Insecticide of Proved Value

NON
POISONOUS.

SOX

IN
TABLET FORM.

FOR ALL FRUIT, FLOWERS, VEGETABLES.

EXPRESSIONS OF OPINION

DIPLOMA—HIGHLY COMMENDED

Awarded by Royal Horticultural Society, June 1920

Messrs, James Carter & Co., Seedsmen, Raynes Park,
write:

Dear Sirs, We have experimented with your preparation "SOX" on plants of Broad beans infested with black fly and roses and other plants troubled with Aphis and we find that it is efficacious in destroying these insects without having any apparent effect on the plants.

There seems to be no sediment left on the foliage and tender shoots do not suffer by the application.

If the directions are followed the preparation dissolves quickly and is convenient to use.

Yours faithfully,

JAMES CARTER & CO.

Mr. Edwin Beckett, V.M.H., F.R.H.S., Aldenham House,
Elstree, Herts, says:—"Re SOX"

Dear Sirs, In reply to your letter of the 7th inst. I have delayed reporting on your preparation until now, as I wanted to be quite certain as to its merits.

We have given it a thorough test, both on the tenderest of plants, as well as fruit trees, etc., and so far we have found it efficient in destroying all living pests, when used according to directions, without doing the slightest injury to the most delicate foliage, and what is also most important it does not appear to leave any trace of sediment on the foliage.

If there is anything further you would like me to do or say in its favour I shall be pleased to do so, as a good insecticide is badly wanted and is therefore of the utmost importance.

I am,

Yours faithfully,

(Signed) EDWIN BECKETT, V.M.H.
(Victorian Medal of Honour).

This is conclusive evidence that SOX is really an EFFICIENT INSECTICIDE, the demand for which is unparalleled.

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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON, E.C.4.

JULY 3, 1920.

This Supplement is inserted in every copy of The Chemist & Druggist

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

ADDRESSED WRAPPERS STAMPED ONE PENNY

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the **FIRST POST THURSDAY MORNING.**

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No. : City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, E.C.—Old-established Wholesale Business for disposal, with a turnover at the rate of £30,000 this year; terms, £1,300 for goodwill and fixtures, stock at valuation.

2.—LONDON, N.—Well-established Business, including excellent Optical connection; returns exceed £2,000 yearly (present rate); 7-roomed house and garden; rent £60; held on lease; terms, lease and goodwill £75, stock and fixtures by valuation, or lump-sum offer would be considered.

3.—LONDON, S.W.—Ready-money Business; returns last year between £1,600 and £1,700; present rate about £2,000; roomy shop; residence sub-let; 21 years' lease; to effect a speedy transfer vendor will consider a reasonable offer.

4.—INLAND HEALTH RESORT.—Good-class Business, Retail and Dispensing; returns £1,000, formerly £3,000; well-fitted shop and residence; stock and fixtures estimated at £800; price £950; death cause of sale.

5.—SOUTH COAST.—For disposal, Wholesale Business, returning about £500 monthly; modern factory, two floors; electric light; moderate rental; held on lease; further details on application.

6.—POPULAR HEALTH RESORT (one hour from Town).—Modern Pharmacy; position unique; returns, under Manager, £7,000, increasing; large, well-fitted shop; electric light; price £4,800.

7.—INLAND HEALTH RESORT.—Old-established Retail and Dispensing Business; returns between £2,200 and £2,400, increasing; fair profits obtained; well fitted and fully stocked; new lease will be granted; price to be agreed.

8.—SOUTH COAST.—High-class Retail and Dispensing Business; returns last year between £4,600 and £4,700, at good prices; there is a nice residence attached, and a new lease for 21 years would be granted; price £3,500.

9.—GREAT WESTERN MAIN LINE.—Old-established Dispensing Business, embracing select Proprietary trade; vendor giving up the Retail; returns £3,600, at full prices; price, to include freehold property, £5,500.

10.—SCOTLAND.—General Retail Business; returns £20 weekly, at fair prices; modern fitted shop; convenient residence; price, including premises, £1,200.

11.—NORTHAMPTONSHIRE.—Brisk Retail Business, situate in busy market town; returns at the rate of £3,000 per annum; net profit 25%; price £2,500.

12.—NORTH STAFFS.—General Retail Business; returns exceed £2,500 per annum; books open to investigation; double-fronted shop; low rent; new lease can be obtained; price about £1,500.

13.—YORKS.—Lock-up Pharmacy; returns, present rate, £70 monthly; scope for increase; net profit 25%; rent £30; a lease will be granted, or premises might be purchased; price for the Business £650.

14.—HAMPSHIRE.—Modern Cash Pharmacy; well-established concern; returns about £3,000 per annum, at good prices; large, well-fitted shop, fully stocked; no immediate opposition; lease will be granted at a rent of £90 per annum; price £1,800.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

LONDON, N.—Old-established, light cash retail, with good optical connection. Returns over £2,000. Good profits. Well-fitted pharmacy and fully stocked. Six-roomed house attached. Price £1,000, or valuation, plus £75 goodwill. Illness sole reason for selling.

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We have genuine cash buyers on our books prepared to take over immediately businesses in the following localities:

LONDON (good-class suburb).—Prices from £600 to £3,000.

HOME COUNTIES (large or small towns).—Prices from £500 to £2,500.

SOUTH, S.E., or S.W. COAST.—Prices, £800 to £3,000.

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SOUTH MIDLANDS OR MIDLANDS.—Prices, £500 to £3,000.

SOUTH-WEST AND WESTERN COUNTIES.—Prices, £800 to £2,500.

Intending vendors are cordially invited to correspond. Private register kept. Quick sales guaranteed.

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BIRMINGHAM (Near).—Good Mixed Retail and N.H.I., returning £4,000 a year, all cash; owner retiring from Drug business; vacant possession of house. "Drugs," c/o British Drug Houses, Ltd., London.

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SCOTLAND.—Good going Business; S.E. Coast town; terms of purchase, stock and fittings at mutual valuation and offer for goodwill. Apply 132/4, Office of this Paper.

WESTERN COUNTY TOWN.—Well stocked Light Retail Dispensing and Prescribing Business; no N.H.I., Photo, or Optics; returns £1,300; profits 40 per cent.; in centre of town; 10 rooms, besides shop, office, and two cellars; every opportunity for investigation given to bona-fide inquirers; price £1,000. Apply "Fido" (113/40), Office of this Paper.

A BARGAIN.—Old-established Middle-class Chemists' Business, with Optical connection; house available; lease; health sole reason for sale; returns £2,400; price £1,000. Further particulars, apply A. E. Corrick, Plantain Place, Crosby Row, Boro', S.E. 1.

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All Valuations have the personal attention of F. J. Brett, M.P.S.

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Telephone: 1934.

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We have Cash Buyers for all Descriptions of Businesses.

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Pharmaceutical Chemist, M.P.S.

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174 VICTORIA STREET, S.W.1.

Tel.: Victoria 27

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.

Recommended by the British Drug Houses, Ltd., Messrs. Meggeson, Ltd., Messrs Barclay & Sons, Ltd., and many

other leading Wholesale Houses.

Valuers to the Association of Manufacturing Chemists.

Make a Speciality of the examination and reporting fully to Vendors or Purchasers as to Value, Prospects, Conduct, &c., on Moderate Terms.

Registers kept of Businesses for Sale. No Charge to Purchasers. Enquiries invited. Personal attention given in all cases.

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BUSINESS, doing £11 weekly, has done £20, neglected, but very easy to get back; in same hands 20 years; ill-health reason; accept any reasonable offer. Apply 111/11, Office of this Paper.

CHEMIST'S (North London).—Elegantly fitted corner premises; main-road position; established 70 years; no opposition; splendid opportunity for qualified man; price £750. Write (stamp), 133/12, Office of this Paper.

IMEDIATE possession, Herbalist Business, busy main street, near Victoria Park, E.; double-fronted shop, parlour, two kitchens, three bedrooms, large yard; rent inclusive £5 month; gas fittings, stove, counters, wall and counter cases, large mirrors, etc.; £250; grand opening for Druggist; bargain. Tyler, c/o Theobald, 161 High Road, Willesden Green.

OLD-ESTABLISHED Cash Business for Sale; thickly populated neighbourhood in London; returns £2,000; rent £50; lease; good profits; 8-roomed house, in good condition. Apply 133/18, Office of this Paper.

P.A.T.A. PROPRIETARY for Sale; well established by merit; orders from all parts; about £100 stock, Pills, Containers, Showcards, Pamphlets, etc.; energetic man, calling on Chemists, will make a fortune with it; about £560 buys it right out; also trade-mark "Unop" for Sale; never used; excellent title for an Ointment; what offers? Apply 132/39, Office of this Paper.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 4s.

SOUTH or West of England.—Pharmacy wanted, where energy and effort would be rewarded with substantial increase in turnover; state in first letter usual particulars, also if house be available; all replies treated in strictest confidence. Apply 115/12, Office of this Paper.

ADVERTISER would like to correspond with Chemist contemplating gradual retirement or partnership; moderate capital, but unlimited energy and wide experience; would consider small business where scope for increase. Yates, 51 Earham Grove, Forest Gate, E. 7.

GENUINE Light Retail Business wanted, North-East or South Coast, showing net profit of £250 to £400, with scope for Dentistry; immediate possession necessary; would manage, view to purchase. Full particulars to Owen, 21 Perth Road, Wood Green, London, N.

RETAIL Business required; Midlands or London; neglected one not objected to if in good position and capable of doing increased and good-class trade under energetic management. Particulars, in confidence, to "M. L." (133/30), Office of this Paper.

WANTED (immediately), good-class Business in main thoroughfare; London, Home County, or South Coast; or would entertain partnership in large concern; cash immediately available. Particulars in strict confidence to "Chemist" (115/13), Office of this Paper.

WANTED, a sound little Business, with living accommodation, in country district or small seaside town; advertiser would be glad to act as Manager with view to early succession. Please give all particulars, turnover, net profits, how long established, any opposition, population, to Roy, 25 Glencairn Road, Streatham, London, S.W. 16.

WANTED, in Yorkshire (West Riding), a sound Business doing £2,000 to £3,000; must bear strictest investigation; within 25 miles of Leeds preferred; must have scope for increase; prompt cash ready. Reply, with full particulars in confidence, to "Chemist," 1 Avenue Terrace, Yeadon, near Leeds.

AGENCIES.

6s. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

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INDIAN firm, having branches in Bombay, Karachi, and agencies in Lahore, Delhi, Madras, and Calcutta, willing to accept sole agencies of Patent Medicines, Groceries, Fancy Goods, Novelties, and Toilet Requisites; best references; excellent sale organisation in India; commission basis for new lines, and will buy advertised lines; proprietor in London temporarily. Write H., c/o James Smith & Partners, Ltd., 36 Camomile Street, E.O. 3.

AGENCIES.—Gentleman, with first-class connection among leading Chemists in Midlands and Potteries, requires one or two Agencies for houses of repute; commission basis; distribution from Midland depot can be arranged if desired. Replies to "Salesman" (133/300), Office of this Paper.

AGENTS wanted, with connection amongst Chemists or Shippers, for first-class Toilet Preparations on high commission basis. Apply 113/36, Office of this Paper.

HAS your turnover increased during the past 6 months? If not your selling staff must be to blame! The most active provincial Sales Organisation in the country, having staff of expert Salesmen, Offices, Showrooms, and proved connection with all Wholesale and Retail Chemists and Stores of repute, will undertake sole Sales Agencies for wide areas. Our reputation compels us to pass by minor propositions which will not rank with the first-class agencies held by us. If you are interested in increased turnovers get in touch with "Sales Manager" (29/11P), Office of this Paper.

TRAVELLERS and Agents, with connection amongst Chemists, required for "Liquid Ice" Speciality. Write, with full particulars, stating ground covered and terms required, to The Liquid Ice Co., Ltd., 100 Jermyn Street, London, S.W. 1.

WANTED, in County of Kent, good Travellers, to take additional side-lines in Chemists' Sundries; sole agencies in well-known and well-advertised Proprietary Articles; only men with connection entertained; excellent opportunity for man with a good connection on the Kent coast towns. Apply 35/22S, Office of this Paper.

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CHEAP, to clear.—10,000 Aperient, 4,000 Female, 4,000 Back and Kidney Pills; 12,000 Cascara (2 gr.), 3,000 Formalin Tabs.; 51 gross 1-dm. G.P.O., 10 gross (some labelled for pills as above), 1½-oz. Chipette Boxes; all good condition; £8 the lot. Sillwood, 21-22 Sillwood Street, Brighton.

CHEMIST'S Beam Scales for Sale (new), fixed on mahogany stand, with raising beam and adjustable legs, Agate bearings, three-inch brass pans, brass weights, with twisers, complete, 500 grains down, in mahogany box, price £4 10s. Also one ditto ditto, with steel bearings, £4. The Service Stores, 19a High Street, Southend-on-Sea.

MAHOGANY Nest of 60 Drawers, with shelving thereover; mahogany supports; complete with heavy, beaded-top Counter and Dispensing Screen; also 400 various Shop Rounds; what offers? "Chemicus," 3 Nicholson Road, Addiscombe.

OPTICAL Test Case, fitted with lens, etc., complete, as new; Testing Cards; Show Cards, with electric-light fillings; Freeman Folders, empty and filled; everything complete for commencing in the Optical line. Full particulars from Woolley & Co., Station Pharmacy, Leicester.

QUININE HYDROCHLOR. P.B. TABLETS; about 11 kilos., in bottles, made by Heyden; now in London. What offers? Hartley Storey, 45 Great Tower Street, E.C. Phone: Avenue 3889.

SHOP FITTINGS.—Shelves, plate-glass (a) 43" x 11½", (b) 37" x 6", with iron standards (38½"), and adjustable brackets; also two Glass Shelves, 24½" x 6", with brackets; best offers. Hampton, 137 Barton Street, Gloucester.

THREE Tablet Machines for Sale, making tablets by hand. Send offers to "Chemicus" (132/36), Office of this Paper.

WHAT Offers? 4 lb. Blue Archill, 8 oz. Gallic Acid, 4 lb. Buffalo Chips, 2 lb. Pulv. Cetacei, 1 lb. Cudbear, 7 lb. Ext. Hematox., 1½ lb. Pulv. Euphorbia, 3 lb. Gum Catechu Pallid., 1 lb. Succ. Scoparii, 8 oz. Tinct. Aconit., Fleming's, 1 lb. Tinct. Cocci, 4 lb. Lign. Santal. Rub. Pulv., 1 lb. Madder, 7 lb. Green Madder, ½ oz. Moschus, 1 lb. Armour's Extract Red Bone Marrow. Apply 112/17, Office of this Paper.

3 x 4-Gall. pear-shaped Carboys, each 82" in height, on mahogany base; what offers? Apply 115/800, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 8d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BATTERSEA POLYTECHNIC, LONDON, S.W. 11.—The Governing Body require the services, during the session 1920-1921, of a part-time Day Lecturer in Pharmacy, Dispensing, Materia Medica, and Pharmaceutical Botany. For particulars send stamped addressed envelope to the Secretary.

BIRKENHEAD.—Junior, young and energetic, required at once for Dispensing and quick cash business; good Salesman and Window-dresser. Give full particulars of age, height, experience, references, and salary required (outdoors), in first letter, enclosing photo if convenient; good prospects and permanency for the right man. Cooper, 80 Argyle Street, Birkenhead.

BIRMINGHAM.—Assistance required for a few weeks from August during holiday of Assistants; either whole or part time. Full particulars 115/38, Office of this Paper.

BIRMINGHAM.—Assistant for Dispensing Department in a high-class Pharmacy; no extra duties; hours 9-7; 9 o'clock Saturdays. Apply, stating references, age, experience, and wages, to Richards, Hagley Road, Edgbaston.

BLACKHEATH, S.E.—Part-time lady Dispenser and Bookkeeper required; 5.30 to 7.30 each day; first-class business; state age, salary required, and enclose photo (returnable). Bailey, 42 St. John's Park, Blackheath, S.E. 3.

GRIMSBY.—Boulton & Skelton, Ltd., require at once capable branch Manager; state age, experience, and salary required.

KENSINGTON, W. 8.—Required, on July 31st, Junior Assistant; one who has been apprenticed in good-class business. Kindly state age, height, experience, and salary required (outdoors), to John F. Harrington, 15 Kensington High Street.

LONDON COUNTY COUNCIL.

DISPENSING Chemist, male (with Pharmaceutical Society's qualifications and practical knowledge of Photographic work), required at London County Mental Hospital, Colney Hatch, New Southgate, N. 11; age not over 40; salary £150 a year, rising by £10 a year to £200 a year, also, at present, temporary additions at rate of £141 17s. 6d. a year; no emoluments; preference given to candidates who have served, or offered to serve, with H.M. Forces; appointment subject to medical examination; pensionable. Full particulars on form of application (on which alone application must be made), obtainable from Asylums Officer, London County Council, 13 Arundel Street, Strand, W.C. 2. Stamped addressed envelope must be sent. Applications must be received by 11 a.m. on Thursday, 8th July, 1920.

JAMES BIRD,

Clerk of the London County Council.

LONDON HOSPITAL, WHITECHAPEL ROAD, E. 1.—Dispenser required for a period of six months, possibly permanently; Minor qualification essential; hours 9 to 5, with occasional late duty. Apply personally or by letter to the Pharmaceutist.

LONDON.—Assistant for City business; quick and accurate; a good Salesman, Window-dresser, and Stockkeeper; not under 22. Full particulars, with salary required, 133/15, Office of this Paper.

LONDON, E.C.—Wanted, at once, a youth or unqualified Junior, with good experience, as temporary Assistant. Apply 3 Queen Street, Cheapside, E.C.

LONDON, N.—Unqualified lady Assistant, with experience of quick Chemist's business. Full particulars and salary required, 92 Packington Street, Islington.

LONDON, N.W.—Part-time lady Assistant (unqualified), capable Dispenser, principally evenings and whole day Saturdays; give full particulars of age, experience, etc. Davies, 59 Dudding Hill Lane, Willesden.

LONDON, W.—Junior Assistant required for good-class Retail and Dispensing business; easy hours. Apply, giving full particulars, age, experience, and salary required (outdoors), to W. A. Weston, 8 Sandringham Parade, Ealing, W. 5.

LONDON, W.—Wanted, qualified Manager (outdoors) for Counter, Dispensing, and Stock, accustomed to Store trade, with a knowledge of Photography; state age, experience, and salary required. Apply 133/37, Office of this Paper.

LONDON, S.E.—Smart Junior or Improver wanted, accustomed to quick cash trade preferred. Apply, stating age, experience, and salary required, to Frank Leslie, 118 Rushey Green, Catford, London, S.E. 6.

LONDON, S.E. (near London Bridge).—Wanted, qualified Chemist for branch shop; ex-Service man desiring permanency preferred; good Window-dresser; energetic and capable; highest references essential. Apply, giving full particulars of experience, age, when disengaged, and stating salary required, to "Alembroth" (P.C.B. 81/29), Office of this Paper.

MANCHESTER.—Wanted, young, unmarried Pharmacist; active and industrious. Send fullest particulars of age, height, and experience, with references and salary expected (outdoors), to Henry Tinker, 104 Claremont Road, Pendleton. Letters not answered in three days declined with thanks.

MIDLANDS.—Young lady Assistant required; permanency; state age, salary required, and when at liberty. Apply 115/80, Office of this Paper.

TEIGNMOUTH.—Unqualified Assistant wanted (outdoors) for good-class Dispensing and Light Retail; no N.H.I. or Photographics. Full particulars of experience, age, and salary required, to H. Dring, Chemist, Teignmouth.

WEST-END.—Wanted, for a first-class business, a fully-qualified Assistant; must be first-class Counter-hand; permanency, and improving position. Apply Ringer, c/o Heppells, 164 Piccadilly, W. 1.

A Lady Dispenser, with Counter experience. State salary and full particulars, H. T. Escritt, 8 Acre Lane, Brixton, S.W.

BALKWILL & CO. have a vacancy for an Assistant, used to first-class Dispensing and Retail; outdoors. Apply, giving usual particulars as to age, height, experience, and stating salary required (enclosing photo, to be returned), to 106 Old Town Street, Plymouth.

DISPENSER wanted for three weeks commencing August 3rd. Apply Drs. C. B. & R., 124 Stroud Green Road, N.

EVENINGS, near Baker Street, qualified, reliable relief each Thursday and alternate Sunday; experienced Counterman and Dispenser. State full particulars, experience, and terms, Goodell, Chemist, Ealing Road, Wembley.

IMPROVER or Junior, 17 to 19 years, wanted for busy Cash business in S.W. London (outdoors). Apply, with particulars, to 133/4, Office of this Paper.

LADY Dispenser wanted; experienced; Apoth. Hall; willing to assist Counter if required; permanency. Apply, stating experience, height, salary required, etc., to W. Deacon, Pharmacist, Bridgewater.

LOCUM Dispenser, lady, qualified, for August; firm of Doctors, Hampshire; full particulars, salary, references. Apply 115/22, Office of this Paper.

LONDON MANAGER.—An up-to-date, qualified man required, preferably one who has been Manager to a leading Store; age 30 to 40; outdoors; excellent opportunity to the right man; could have a small financial interest or work on commission; state age, height, experience, and salary required; must have first-class references. Apply, in confidence, P.C.B. 82/5, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist; easy hours; good and progressive salary, with excellent prospects; free removal.

PARKE'S DRUG STORES, LIMITED, require a Qualified Manager (immediately); progressive wage for progressive man; applicant must have good London experience; knowledge of Photography and Optics an advantage. Apply, by letter only, stating age, height, and experience, to 65 Harwood Street, Kentish Town, N.W. 1.

PART-TIME Assistant required, if possible for four evenings a week, all day Saturdays, and occasional Sunday duty. Apply, with full particulars and stating approximately salary required, to B. C., 20 New Street, Dorset Square, N.W. 1.

QUALIFIED Manager for good-class Dispensing, Photo branch; Optics an advantage; single-handed; outdoors; south seaport; state full particulars in first letter. "B." c/o Messrs. Harker Stagg, Ltd., Emmott Street, Mile End, London.

QUALIFIED Manager required for July 1st; single preferred; state age and salary required. Apply "H. L." (115/8), Office of this Paper.

QUALIFIED Manager with all-round experience; state salary required (outdoors). Apply "Midlands" (107/36), Office of this Paper.

QUALIFIED Manager wanted immediately; good London experience essential; applicants must be energetic and progressive; salary £6 10s. and commission. Apply, stating age, and full experience, to "Square" (29/12P), Office of this Paper.

UNQUALIFIED Assistant, 20-24, single, required July 26th to end of September; Drug Stores, Photographic and Optics; easy hours; full particulars first letter, and salary required (outdoors). Roberts, Dental Surgery, Neyland, S. Wales.

UNQUALIFIED, steady, reliable Assistant wanted for a month. Apply, stating terms (outdoors) and when disengaged, to Black, Chemist, Tredegar, Mon.

UNQUALIFIED Assistant wanted; must understand Photo work; state wages required, experience, age, when disengaged, and send photo. Hughes, Chemist, Ramsgate.

WELL recommended Junior Assistant required at once. Write or apply, stating salary, etc., L. E. Beere, 23 Hampstead Road, N.W. 1.

WANTED, for West-End Pharmacy, lady Assistant for Counter and Stock; previous experience necessary. Apply, giving age, previous experience, and salary required, to 4/36B, Office of this Paper.

WANTED, experienced Junior Assistant for Light Retail business; undeniable references. Send full particulars, stating salary required (outdoors), and when at liberty, Ostler & Green, Chemists, 95 High Street, Strood, Kent.

WANTED, in the West Riding of Yorkshire, Chemist (not necessarily qualified); lady preferred; used to superintending female labour. Apply, giving experience, salary required, etc., to 13/13G, Office of this Paper.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

KENT, Surrey, Sussex, and North Wales.—Traveller required; sound opportunity offered reliable gentleman, on salary and commission of very good commission; lines suitable for Chemists and Druggists, Hairdressers and Perfumers, etc.; splendid scope for really efficient Traveller, who will find prices and qualities right. Reply, with full particulars, "Competent" (13/16G), Office of this Paper.

LANCASHIRE firm requires representation, and would be pleased to correspond confidentially with suitable gentleman; interest in the business entertained; full particulars required and respected. Apply 132/32, Office of this Paper.

S. WALES and West of England.—A well-established Pharmaceutical house of high repute require a Representative, residing in Bristol district, to take charge of this territory; only high-grade men with an established connection amongst Pharmacists and Doctors in this area will be considered. Applications, with full particulars of past experience, salary required, etc., to be forwarded to F. (3/30B), Office of this Paper.

A NEW organisation desirous of cultivating a high-class Chemist's business in the London area requires a Representative with connection (essential). This is an excellent opportunity for a gentleman capable of securing orders and building up a steady business. Salary £300 and commission. Full details in first letter in confidence. Apply P.C.B. 81/32, Office of this Paper.

FOREWOMAN wanted; must be good disciplinarian and possess practical knowledge of packing Chemists' Counter Goods and Sundries. Write, stating experience, age, and wages required (one who has served the Retail Counter trade would not be objected to), Raybould Whitehouse & Co., Ltd., Manufacturing Chemists, Dudley, Woro.

MALE Assistant for invoice and statistical department of London Manufacturing Chemists; age about 20; progressive post; only those accurate at figures, and with good knowledge of the trade need apply, stating full particulars and salary required. Apply 14/15H, Office of this Paper.

REPRESENTATIVE; London district; commission basis; Drug-gists' Sundries; must have live connection; able to influence sound business; other districts open: South Wales, North-East Coast, and Midlands; submit, in confidence, amount of business possible; reliable references. Apply 43/9W, Office of this Paper.

REPRESENTATIVE required for London and South-East Coast, preferably with connection amongst Chemists, to sell established line; repeats certain; £5 salary, expenses, and commission; from £600 to £1,000 per year is being earned by other men. Apply, in confidence, 133/32, Office of this Paper.

REQUIRED for Southampton, an expert Finisher, accustomed to all details of Toilet Preparations, to control about 20 pieceworkers. Replies, in own handwriting, should state fully particulars of past experience, age, and wages required, to 9/6E, Office of this Paper.

TRAVELLERS wanted on commission for Lancashire and Yorkshire by old-established Druggists' Sundries house. Apply 115/14, Office of this Paper.

TRAVELLERS wanted, calling upon Chemists and Hairdressers, to take up as a side-line a high-class Toilet Preparation on a good commission basis. Apply in the first instance, stating ground covered, to 132/22, Office of this Paper.

TRAVELLERS required to carry a good side-line on liberal commission basis. Bona-fide applicants only, with sound connections, write full particulars in first instance, stating ground covered, to Curtis & Price, Ltd., Manufacturing Chemists, 18 Rury Street, British Museum, London, W.O. 1.

WANTED, Travellers calling on Chemists in all parts of England, Scotland, and Wales, to carry a high-class Medicinal Speciality, having an easy sale amongst Chemists, on a guaranteed 20 per cent. commission basis; small sample only; men who will sell can materially increase their income. Apply 100/7, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BOLIVIA, SOUTH AMERICA.—Qualified Assistant, about 25 years of age; accustomed to good-class Dispensing and general business; Photographic experience essential; three years' engagement; first year £350, second year £400, third year £450; second-class passage out and home; abstainer preferred; active, obliging, good worker; room provided. Apply, with full particulars, to "Bolivia," Evans Sons Lescher & Webb, Ltd., Export Department, 56 Hanover Street, Liverpool.

CALCUTTA.—Assistant, under 25, required for old-established Calcutta firm; qualified preferred, but not essential; experience in Retail trade and in accurate Dispensing of Prescriptions necessary; four years' agreement; salary first year Rs. 300, second year Rs. 325, third year Rs. 350, and fourth year Rs. 375 monthly; fares paid out and home. Apply, giving full particulars of experience, etc., to 21/5L, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—LOCUM, 46; disengaged; abstainer; reliable; take charge; abstainer; moderate terms. "Locum," Post Office, Arnside, Westmoreland.

A QUALIFIED Chemist, 40, disengaged; Manager or Locum; thoroughly competent; town, country, seaside experience; up-to-date Photography, entire satisfaction guaranteed. Apply 133/26, Office of this Paper.

A QUALIFIED Chemist desires any position of trust, Manager or Locum, early in July; held present position for 8½ years. 13 Coniger Road, Parson's Green, S.W. 6.

ASSISTANT Dispenser (lady); Hall qualification; some experience; salary £3 per week. Apply "J." (111/12), Office of this Paper.

ASSISTANT; 24; immediately; London. Dormor, Eye, Suffolk.

ASSISTANT, unqualified, desires situation in good-class Pharmacy; smart Salesman; good knowledge Photography. Write "S. S.," Whydown Cottage, Whydown, Bexhill-on-Sea.

ASSISTANT, unqualified, for Locum or permanency; London; all-round experience; disengaged shortly. "Radix," 72 Tremadoc Road, Clapham, S.W.

ASSISTANT (unqualified) desires part-time situation; mornings only. A. R., 30 Gore Road, Hackney, E. 9.

ASSISTANT or Branch Manager, accurate Dispenser, modern Counterman, tall, married, requires permanency. Hannath, 53 Cantelupe Road, East Grinstead.

COMPETENT Locum, recommended leading houses, disengaged through transferring date; Licensed Valuer; terms moderate. L., 27 Cambridge Road, Southend.

DISENGAGED; qualified; Manager, permanent or Locum; West End preferred; 25 years' London experience. "Chemist," 108b Elgin Avenue, W. 9.

DISENGAGED.—Capable unqualified Assistant; ex-Sergeant-Dispenser; splendid references; good experience in Retail, Dispensing, Photographic; London or Home Counties. R. L. Quirk, "Kinross," College Road, Guildford.

DISENGAGED; lady; qualified; good Dispensing and Counter experience. Apply C. J. Alexander, The Pharmacy, Alford, Aberdeen.

DISENGAGED; exceptional Dispensing and all-round experience. B., 71 Hele Road, St. Mary Church, Torquay.

DISPENSER (unqualified), age 23, 7 years' experience, requires season place; if local, wage £3. Stober, 28 Harlow Moor Drive, Harrogate.

DOCTOR, young, single, abstainer, indifferent health, desires to help Chemist; open to interview; terms by arrangement. Apply 115/32, Office of this Paper.

ELDERLY, qualified, reliable, competent, etc.; London and country; moderate salary; disengaged; interview desired; single. "Chemdental," 35 Hatcham Park Road, S.E. 14.

ELDERLY, qualified; mostly Dispensing; disengaged 2 to 7.30 p.m. daily; London; permanency. H. Coles, 31 Alexander Street, Bayswater, W.

FLAGGING BUSINESS!—Advertiser, unqualified, seeks situation as Manager of business requiring rebuilding with view permanency; keen business man; good Window-dresser; able conduct advertising campaign; knowledge of Photography. Apply 111/9, Office of this Paper.

HAVING sold my business, advertiser seeks part-time work with Chemist or Chemist-Optician; N.W. district. Apply 133/28, Office of this Paper.

JUNIOR Assistant (21) desires post in London; Dispensing experience; excellent references. Kiff, 29 St. Mary's Road, Watford, Herts.

JUNIOR Assistant (age 20), 4½ years' all-round experience, seeks berth in brisk Cash business, preferably round London, but not essential. Apply 132/38, Office of this Paper.

JUNIOR (23); good Counterman; well up in Photography; accustomed to N.H.I. and private Dispensing; London or South Coast. H. Thompson, 28 Rossiter Road, Balham, S.W. 12.

LADY Dispenser (Hall) requires post with Doctor, Hospital, or Chemist; five years' experience; good references. Apply "M.," 37 Alexandra Avenue, Mansfield.

LADY Dispenser, Hall; private and public testimonials; accustomed to entire charge of books and sending accounts, helping with correspondence, taking letters to dictation, telephoning; six years' present post; age 31. "W. E. R.," 162 Devonshire Road, S.E. 23.

LADY, taking Minor in July, desires engagement early autumn. Apply 115/18, Office of this Paper.

LADY Dispenser; Hall qualification; experienced; part time or easy hours; Caterham district, or London. Miss Truby, Brynchelig, Caterham.

LADY Dispenser (Hall) requires post; Locum or permanent; eight years' good experience. E. B., 7 Carleton Road, N. 7.

LADY Dispenser (part Hall) requires post with Doctor. Brayshaw, Bromfield, Ludlow, Shropshire.

LADY desires post (Hall), Locum or permanency; experienced; or would take part-time post. Apply 133/11, Office of this Paper.

LOCUM; Dispensing principally; provincial preferred; qualified and elderly. West, 47 Vicarage Road, Leyton, London, E. 10.

LOCUM, unqualified, very steady, desires engagements for holiday relief; easy reach Leytonstone, London. "Locum," Barton Cottage, Sandgate, Kent.

LOCUM Tenens; middle-aged; all-round experience; disengaged July 12 to August 7. "Locum Tenens," 36 Capel Street, Newport, Mon.

LOCUM; qualified; abstainer; disengaged July 26th-August 16th; experienced; reliable; good references. Beer, c/o Sayers, Chemist, Hendon, N.W. 4.

LOCUM (Ph.C.), July and August; 30; South and West of England. "Pharmacist," 2 Harcourt Terrace, Salisbury.

LOCUM, disengaged, unqualified, 32, wishes to book up engagements for holiday relief. Fordham, Church Road, Newick.

LOCUM, disengaged August and September; elderly; very active. Apply 132/33, Office of this Paper.

LOCUM, in business, would do a week, country or coast only; all branches; N.H.I. qualification; Yorks. "N. B." (132/24), Office of this Paper.

LOCUM, permanency; disengaged; 25 years' practical experience; Branch, Senior, Drug Stores Management; moderate salary. "Efficiency," 5 Port Street, Evesham.

LOCUM, Manager, or position of trust; 40; qualified; abstainer; 8 years' reference. Phelps, 10 Hampstead Road, Brislington, Bristol.

LOCUM; highest references; wide experience; well recommended. Brown, c/o Bidders, The Fort House, Brixham, Devon.

LOCUM; experienced all branches and smart; free July 3rd. C. S., 58 Gipsy Hill, S.E. 19.

LOCUM or Branch Management; qualified; middle-age; varied experience; active, energetic, but careful; any class business, long or short period. "Chemist," 68 Addison Street, Nottingham.

LOCUM; unqualified; age 27; abstainer; 11 years' experience; Counter, Dispensing, Photography; dates open, September 6th to October 2nd. H., 42 Gascony Avenue, N.W. 6.

LOCUM or Manager; qualified; 45; disengaged July 26th; steady and reliable. Stone, c/o Mr. Adams, 56 Marine Parade, Brighton.

LOCUM, unqualified, 27, seeks engagements during July and August (except last week in July); take complete charge or assist. Please apply "Aspirin," 186 Vauxhall Bridge Road, Westminster, S.W. 1.

MANAGER, with or without view to succession; best experience and references. Yates, 51 Earham Grove, Forest Gate, E. 7.

MANAGER would work up business; 36; abstainer; Photography, good Prescriber; excellent references; country town. South England; reasonable hours expected. C., 2 Granville Road, Stroud Green, N. 4.

MANAGER; experienced all branches; present position 5 years; Hall qualification; 39; married; highest references; unreg.; moderate salary. X. Y. Z. (133/33), Office of this Paper.

MANAGER or Locum; qualified; London or country; good references; good all-round experience. Apply 132/31, Office of this Paper.

PHARMACIST, free for immediate engagement until 19th July, and can book periods also from 1st August; highest references; lengthy experience Managership, Dispensing, or Sales Counter. "Fidelis," 28 Thorngate Road, Maida Vale, W. 9.

PHARMACY Student (lady) desires holiday post July and August; part-time October-June. "R.," Roding Villa, Maybank Road, South Woodford.

QUALIFIED, 27, married, desires position as Branch Manager or Assistant with view to early succession; living accommodation essential; Eastern Counties preferred; town and country experience with Photography; excellent references. Webb, 101 Baxter Avenue, Southend-on-Sea.

QUALIFIED, 25, seven years' experience, desires permanency; disengaged September; excellent references. State salary; etc., to "Calumba," Bryndesi, Hereford Road, Abergavenny.

UNQUALIFIED; first-class Dispensing, Counter, and Photographic experience; fluent French; Continent or seaside preferred; excellent references. Wood, Chez Delarche, 28 Rue Casimir Périar, Le Havre, France.

UNQUALIFIED; age 21; 4 years' good experience in brisk business; Counter or Dispensing; Locum or permanent. Apply "Junior," 106 Albert Road, North Woolwich, E. 16.

UNQUALIFIED; 38; expert Salesman and Window-dresser; Dispensing, Photographic; capable organiser. Apply 133/21, Office of this Paper.

UNQUALIFIED; 29; 9½ years' high-class Dispensing and Counter experience; capable Manager; Photography. Gregory, Bridge Street, Nailsworth, Glos.

YOUNG lady (21) requires situation with Chemist in London; two years' experience Counter and two years' office (Photo Section R.A.F.); best references; now at liberty. Apply 44 Warwick Avenue, W. 9.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/4.

A REPRESENTATIVE seeks engagement with established house requiring young, energetic man; London; interview any time. Apply 115/27, Office of this Paper.

ADVERTISER (28) requires responsible position; thorough knowledge of Patent Medicines and Sundries; used to all buying, office routine, correspondence, and control of staff. Reply, stating salary offered, P.C.B. 80/18, Office of this Paper.

CHEMISTS' AND DRUGGISTS' SUNDRIES.—First-class London man, representing well-known City house, wishes to change; splendid connection and turnover; small salary, expenses, and commission. Apply "X. Y. Z." (P.C.B. 81/11), Office of this Paper.

MINOR MAN (30) seeks occupation with Wholesale or Manufacturing Chemists; Manufacturing experience; excellent references; could invest £300. Write, 133/2, Office of this Paper.

QUALIFIED, residing Welsh coast, will exchange houses and act as Locum for fortnight from July 30; Liverpool, Manchester, or Birmingham preferred. Apply 115/19, Office of this Paper.

REPRESENTATIVE desires a change; huge connection, Chemists and Doctors, Midlands, Lancs, and Yorks; all or any Chemists' lines; salary or commission. Address "Energy" (133/36), Office of this Paper.

SUCCESSFUL Representative, N.W. England and Scotland, requires progressive house who appreciate hard work and initiative. Apply "M. F." (112/16), Office of this Paper.

YOUNG gentleman, well educated, six years' experience in Retail, seeks position with good Drug firm as representative in the whole of Ireland. Apply 114/1, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/4.

NEW ZEALAND.—Pharmacist, 33, desires position in New Zealand; has had 18 years' business experience (Retail); knowledge of Photography, Bacteriology, Dentistry; would undertake position either as Assistant or Manager of new business. Apply 113/28, Office of this Paper.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

MISCELLANEOUS.

10s. for 60 words; 1s. for every additional 10 words or less.

ACID. CITRIC. B.P. for Sale; 2 cwt. of Crystal and 2 cwt. of Powder @ 5s. 6d. per lb. or best offer for the lot; also 1 cwt. St. Vincent, Arrowroot @ 1s. 1d. lb. and ½ cwt. Tartaric Acid B.P. @ 3s. 6d. lb.; carriage paid on 7-lb. parcels. Address "Chemicals," 781 Fulham Road, London, S.W. 6.

FOR SALE, two or three Mixing Machines; second-hand; perfect order; some suitable for mixing stiff pastes and others for powders or liquids. Further particulars on application to 35/178, Office of this Paper.

QUININE.—1,000 ounces each Quinine Hydrobrom. and Quinine Phosph., also 200 ounces Quinine Valer. for disposal; what offers for whole or part. Apply 35/218, Office of this Paper.

SHOP-FITTINGS, comprising Drug Fitting, 14 feet long, with glass-labelled drug drawers, stock cupboards, lockers, shelving, and poison cupboard; 12-feet mahogany and plate-glass Wall Case; 16-feet mahogany and plate-glass Serving Counter, with sliding doors, Dispensing Screen and Counter; and 6-feet Wall Showcase. Particulars on application, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

SURPLUS STOCK.—Santonin Crystals, one original sealed tin, unopened, containing 2½ kilogrammes, about 5½ lb.; also another tin opened, containing about 3½ lb.; what offers for whole or part? Davies, Chemist, Llanelly.

18 × 100-GALLON Steel Barrels, with double running hoops, never used, for Sale; £4 each, delivered. Apply H. T. Manwaring, 50 Cannon Street, E.C. 4.

1 ALLEN & HANBURY'S No. 2 Rotary Tablet Machine, in perfect condition; large number of spare parts, dies, and punches; £75. 1 Wilkinson "Speedy" Single-punch Hand Tablet Machine, perfect condition, with 8 sets dies and punches; £15. 2 Allen & Hanbury's "Duplex" Hand Tablet Machines @ £9 each. Apply J. F. Buckley, 42 Sopwell Lane, St. Albans.

EXCHANGE COLUMN.

Twopence per word: Minimum 2s.

FOR DISPOSAL.

DENTAL.

DENTAL Chair, upholstered in green plush; as new; side spittoon; also Treadle Drill. Offers, "Dental," 3 Nicholson Road, Addiscombe.

DRUGS AND CHEMICALS.

3 LB. Ext. Ergotæ Liq., 46s. lb.; carriage paid. Richards, Hagley Road, Birmingham.

5 LB. Tartaric Acid in 6-oz. bottles, 3s. 6d. lb.; 1 cwt. Epsom Salts (medicinal), 16s. Marsh, 41 Newcomen Street, S.E. 1.

FOR Sale, about 5 oz. Santonin, in good condition, 50s. per oz.; cash with order. E. Byrne, Chemist, Coalisland, Co. Tyrone.

OPTICAL AND PHOTOGRAPHIC.

OFFERS wanted for Swift Microscope in mahogany case, ½, ¼ and ⅛ oil immersion lens, Abbey condenser; perfect condition. Tranmer, Smethwick.

WANTED.

SODII Carb. and Sodii Sulph. Send offers to 115/40, Office of this Paper.

A SMALL Sifter and Mixer Machine required; suitable for Tooth Paste. "N." 10 Portman Street, Marylebone, W.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

COUNTER, 9'; shallow Showcase, 3' wide; Shop Rounds; Shelving; Nest Drawers, 6' wide; Dispensing and Counter Scales, etc. Lowest cash offers, full descriptions, to Barton, "Castledene," Newport, I.W.

THE IMPORTANCE OF CIRCULATION



IN ATTEMPTING TO ARRIVE AT ANY ESTIMATE AS TO THE
VALUE OF ADVERTISEMENT CHARGES THE QUESTION OF

CIRCULATION IS VITAL

- ¶ A low tariff, unless backed up by proper circulation, may make a very dear Advertisement. A large circulation amongst unsuitable readers is dear at any price, while a small circulation amongst a few interested readers, backed up by an intermittent stream of "free copies," is only to be valued on the basis of a few interested readers.
- ¶ Only a medium which can show "*Paid in advance*" circulation offers something tangible and deserves earnest attention from Advertisers.
- ¶ Given a circulation assured by actual *payment of subscriptions*, the next point is to consider the commercial standing of the subscribers, and the places where they carry on business. It may be taken for granted that a medium which can command as constant subscribers the leading firms in the trade for which it caters is worth attention, and if the circulation can be shown to cover the whole area of the Trade at home and abroad, a basis of valuation may be easily arrived at.

THE CHEMIST AND DRUGGIST

was established in 1859, and since its foundation it has commanded the attention of the leading Drug, Chemical and Allied Trades all over the world. Its circulation has always been on the *paid in advance* basis, and during the sixty years of its existence it has acquired a business influence covering every department of these trades at home and abroad.

TO THE ADVERTISER

- ¶ Herein is a definite and clear proposition worth your study :
BEAR IN MIND THE CHEMIST & DRUGGIST is mailed WEEKLY to buyers whose interest in the Journal is vouched for by the fact that they have already PAID GOOD MONEY TO ENSURE ITS REGULAR RECEIPT FOR A YEAR. We do not publish circulation certificates, but we offer to prospective advertisers the best of all guarantees, viz. : the fullest examination of our Subscription Registers. To all those who treat their advertising seriously the value of this guarantee is apparent.

YOU ARE INVITED TO CALL AT THE HEAD
OFFICE AND INSPECT OUR SUBSCRIPTION REGISTER.

FOR FURTHER INFORMATION
WRITE

THE PUBLISHER

The Chemist & Druggist

42 Cannon Street

London, E.C. 4.

(Established 1859)

RUSSIAN PARAFFIN LIQUID

THE DAWN OF HEALTH

REDDGRAVE BUTLER & CO
PARK LODGE
FOREST LANE, E.15
TEL. 86. STATION 756

The advertisement features a central illustration of a woman in classical attire, seen from behind, reaching up to touch the words "RUSSIAN PARAFFIN LIQUID" which are arched over her head. Below her, the words "THE DAWN OF HEALTH" are written in a rectangular frame. In the bottom left corner is a small illustration of a lamp with a flame. In the bottom right corner is a scroll containing the name "REDDGRAVE BUTLER & CO", the address "PARK LODGE FOREST LANE, E.15", and a telephone number "TEL. 86. STATION 756".

San Sat

(Kismet Label).

Sole Agents for Australia:

W. Hermon Slade & Co.
418 George Street,
Sydney, N.S.W.

*Sole Agent for
New Zealand:*

S. A. Smith,
161 Hertford Street,
Christchurch,
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